

# FILE NOTATIONS

Entered in NID File ☒  
 Entered On S R Sheet ☐  
 Location Map Pinned ☒  
 Card Indexed ☒  
 F W R for State or Fee Land ☐

Checked by Chief *PMB*  
 Copy NID to Field Office ☒  
 Approval Letter ☐  
 Disapproval Letter ☐

## COMPLETION DATA:

Date Well Completed 6-28-64  
 OW \_\_\_\_\_ WW \_\_\_\_\_ TA \_\_\_\_\_  
 GW \_\_\_\_\_ OS \_\_\_\_\_ PA ☒

Location Inspected \_\_\_\_\_  
 Bond released \_\_\_\_\_  
 State of Fee Land \_\_\_\_\_

## LOGS FILED

Driller's Log 27-64

Electric Logs (No. ) 2

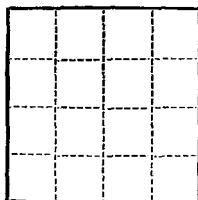
E \_\_\_\_\_ I \_\_\_\_\_ E-P \_\_\_\_\_ GR \_\_\_\_\_ GR-N \_\_\_\_\_ Micro \_\_\_\_\_  
 Lat. \_\_\_\_\_ Mi-L \_\_\_\_\_ Sonic NR Others \_\_\_\_\_

CONFIDENTIAL

(SUBMIT IN TRIPLICATE)

Land Office **Salt Lake**Lease No. **W-035521**

Unit \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**USA Form 7-1**  
**"Right Hole"** ✓

## SUNDRY NOTICES AND REPORTS ON WELLS

|   |                                     |   |  |
|---|-------------------------------------|---|--|
| NOTICE OF INTENTION TO DRILL.....                   | <input checked="" type="checkbox"/> | SUBSEQUENT REPORT OF WATER SHUT-OFF.....        |  |
| NOTICE OF INTENTION TO CHANGE PLANS.....            |                                     | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING..... |  |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....     |                                     | SUBSEQUENT REPORT OF ALTERING CASING.....       |  |
| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL..... |                                     | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR..... |  |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....        |                                     | SUBSEQUENT REPORT OF ABANDONMENT.....           |  |
| NOTICE OF INTENTION TO PULL OR ALTER CASING.....    |                                     | SUPPLEMENTARY WELL HISTORY.....                 |  |
| NOTICE OF INTENTION TO ABANDON WELL.....            |                                     |   |  |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

5/22, 19 64

Well No. **1** is located **660** ft. from **N** line and **660** ft. from **W** line of sec. **13****G NW 1/4 NW 1/4 Sec. 13**

(1/4 Sec. and Sec. No.)

**22**

(Twp.)

**16E**

(Range)

(Meridian)

**Unnamed**

(Field)

**Duchesne**

(County or Subdivision)

**Utah**

(State or Territory)

The elevation of the derrick floor above sea level is \_\_\_\_\_ ft. **will advise**

## DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Propose to drill to TD of 6000 ft. Will set 300 ft. 10-3/4" new casing in 15" hole cemented to surface. Will set 6000 ft. new 7" csg in 9" hole w/cst. 400 gr. cut. May core 50' in Green River formation depending on sample shows and gas logger. Will run IES log surface csg to TD. Will run Gamma Ray Sonic and Digitized dipmeter 2000 ft. to TD. May DST estimated 4 times in Green River. Will set 7" csg through all pay zones. Will perforate and stimulate as necessary and place on production.

## CONDITIONS OF APPROVAL ATTACHED

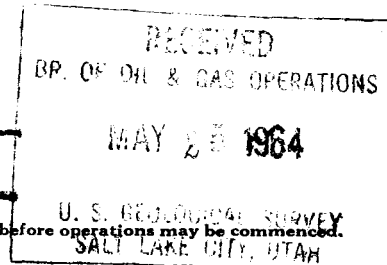
Approved **MAY 25 1964**[ORIG. SGD] **R. A. SMITH**

District Engineer

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Pan American Petroleum Corporation**Address **Box 1400****Riverton, Wyoming**

By \_\_\_\_\_

Title **Area Superintendent**

CONFIDENTIAL

PLUGGING PROGRAM FORM

Name of Company Pan American Verbal Approval Given To: George Ross  
Well Name: USA #F-1 (PANAM.) Sec. 13 T. 9S R. 16E County: Duchess

Verbal Approval was given to plug the above mentioned well in the following manner:

T. D. - 6000 ft (9 in hole) No Water detected  
Surface Pipe - 30 9 ft - 10  $\frac{3}{4}$  / 230 st  
mud = 10.5 # weight

Note: Elect Log shows one good zone (3782-3843)

9 DST: 1) 4740-4768 = cleaned 80' sluff zone  
cut mud

2) 5030-5086 = 5' mud/slight  
seam of oil

Cored 5030-5085 = Comparable to Walton #1

Elect log tops: spudded in Walton  
Green River - 1455  
Washata - 5920

30 st across top - 5880 - 5955 (Walton)

30 st 4700 - 4775 - 1st DST and sluff zone

30 st 1415 - 1490 - across Green River

Date Verbally Approved: Jan 26, 1964 Signed: Paul W Burchell

30 st at base of 10  $\frac{3}{4}$  (970-344)  
10 st at surface / marker.

CONFIDENTIAL  
STATE OF UTAHSUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)"CONFIDENTIAL -  
TIGHT HOLE"

## OIL &amp; GAS CONSERVATION COMMISSION

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Pan American Petroleum Corporation

## 3. ADDRESS OF OPERATOR

Box 1400, Riverton, Wyoming

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

660 FNL and 660 FWL Sec. 13 T9S R16E

CND NW

At proposed prod. zone

Same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

Est. 30 miles

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. line, if any)

660

## 16. NO. OF ACRES IN LEASE

1120

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

80

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

None

## 19. PROPOSED DEPTH

6000

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

Will advise

## 22. APPROX. DATE WORK WILL START\*

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 15"          | 10-3/4"        | 32.3#           | 300'          | To surface         |
| 9"           | 7"             | 20# & 23#       | 6000'         | 400 sx.            |

Propose to drill to TD of 6000 ft. Will set 300 ft. 10-3/4" new casing in 15" hole cemented to surface. Will set 6000 ft. new 7" csg in 9" hole with est. 400 sx. cmt. May core 50' in Green River formation depending on sample shows and gas logger. Will run IES log surface csg to TD. Will run Gamma Ray Sonic and digitized dipmeter 2000 ft. to total depth. May DST estimated 4 times in Green River. Will set 7" csg through all pay zones. Will perforate and stimulate as necessary and place on production.

Confirming Phone Ellison to Cleon Feight 5/25/64

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

(This space for Federal or State office use)

TITLE

Area Superintendent

DATE

5/22/64

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side



**CONFIDENTIAL**  
STATE OF UTAH

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

**"CONFIDENTIAL -  
TIGHT HOLE"**

## OIL &amp; GAS CONSERVATION COMMISSION

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

|  |   |   |
|--|---|---|
| <b>1a. TYPE OF WORK</b><br>DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>  |   | <b>5. LEASE DESIGNATION AND SERIAL NO.</b><br><b>U-035521</b>   |
| <b>b. TYPE OF WELL</b><br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>  |   | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</b><br>                 |
| <b>2. NAME OF OPERATOR</b><br><b>Pan American Petroleum Corporation</b>  |   | <b>7. UNIT AGREEMENT NAME</b><br>                               |
| <b>3. ADDRESS OF OPERATOR</b><br><b>Box 1400, Riverton, Wyoming</b>  |   | <b>8. FARM OR LEASE NAME</b><br><b>USA Pan American</b>         |
| <b>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)</b><br>At surface<br><b>660 FWL and 660 FWL Sec. 13 T9S R16E</b><br>At proposed prod. zone<br><b>Same</b> |   | <b>9. WELL NO.</b><br><b>F-1</b>                                |
| <b>14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*</b><br><b>Est. 30 miles</b>   |   | <b>10. FIELD AND POOL, OR WILDCAT</b><br><b>Wildcat Unnamed</b> |
| <b>15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. line, if any)</b><br><b>660</b>  | <b>16. NO. OF ACRES IN LEASE</b><br><b>1120</b> | <b>17. NO. OF ACRES ASSIGNED TO THIS WELL</b><br><b>80</b>      |
| <b>18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.</b><br><b>None</b>  | <b>19. PROPOSED DEPTH</b><br><b>6000</b>        | <b>20. ROTARY OR CABLE TOOLS</b><br><b>Rotary</b>               |
| <b>21. ELEVATIONS (Show whether DF, RT, GR, etc.)</b><br><b>Will advise</b>  |   | <b>22. APPROX. DATE WORK WILL START*</b><br>                    |

**23. PROPOSED CASING AND CEMENTING PROGRAM**

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT      | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|----------------------|---------------|--------------------|
| <b>15"</b>   | <b>10-3/4"</b> | <b>32.3#</b>         | <b>300'</b>   | <b>To surface</b>  |
| <b>9"</b>    | <b>7"</b>      | <b>20# &amp; 23#</b> | <b>6000'</b>  | <b>400 sx.</b>     |

**Propose to drill to TD of 6000 ft. Will set 300 ft. 10-3/4" new casing in 15" hole cemented to surface. Will set 6000 ft. new 7" csg in 9" hole with est. 400 sx. cnt. May core 50' in Green River formation depending on sample shows and gas logger. Will run IES log surface csg to TD. Will run Gamma Ray Sonic and digitized dipmeter 2000 ft. to total depth. May DST estimated 4 times in Green River. Will set 7" csg through all pay zones. Will perforate and stimulate as necessary and place on production.**

**Confirming Phone Ellison to Glen Knight 5/25/64**

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

**24. Original Signed**  
 SIGNED J. E. LANG TITLE Area Superintendent DATE 5/22/64

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

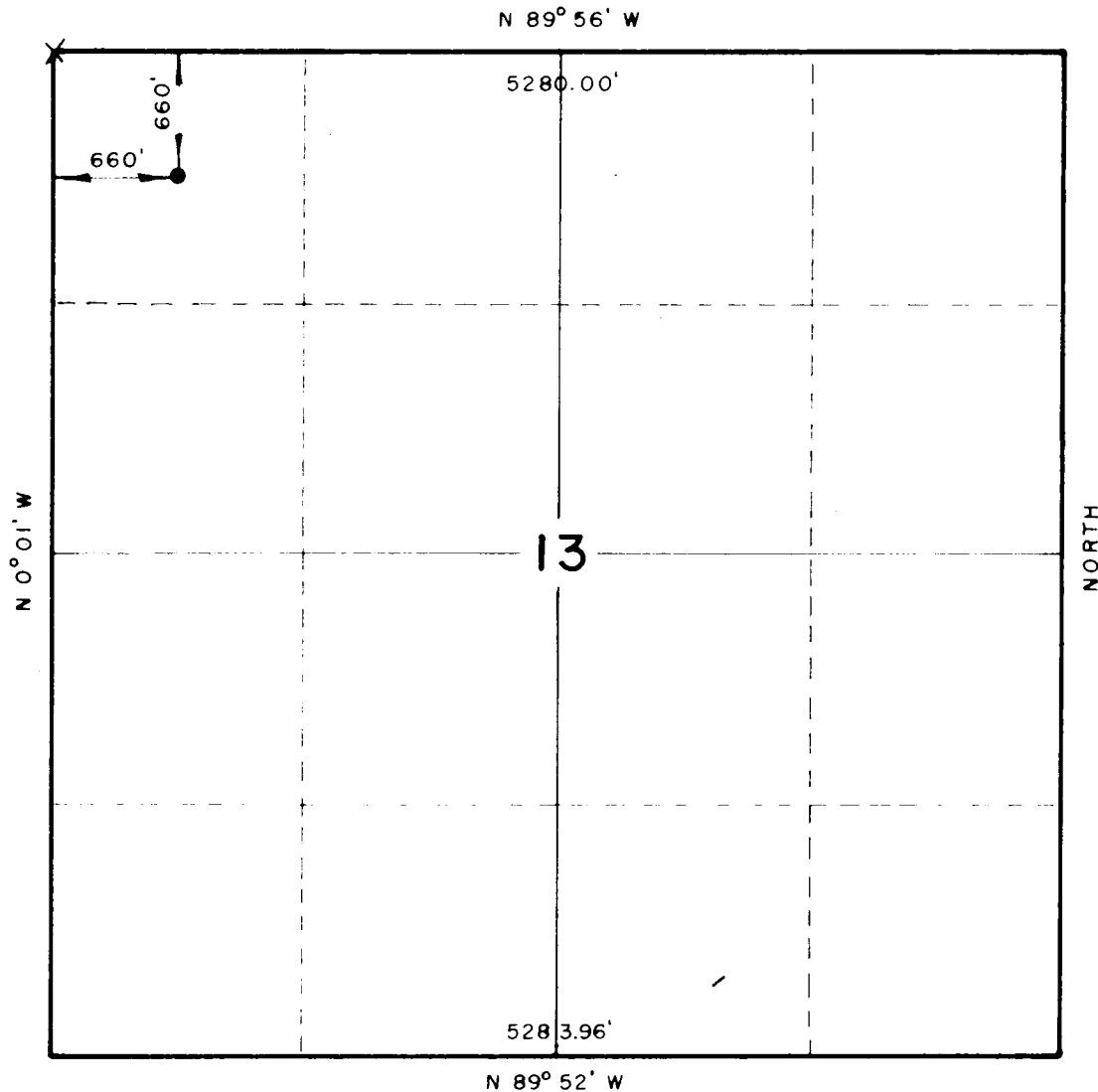
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

T 9 S, R 16 E, S L B & M

CONFIDENTIAL



X = Corners Located (Brass Caps)

Scale: 1" = 1000'

*Nelson Marshall*

By: ROSS CONSTRUCTION CO.  
Vernal, Utah

CONFIDENTIAL

|  |  |   |
|--|--|---|
| <p>PARTY N. J. Marshall<br/>R. Stewart</p> <p>WEATHER Clear - Warm</p> | <p>SURVEY<br/>PAN AMERICAN PETROLEUM CORP. U.S.A. PAN<br/>AMFB #1 WELL LOCATION, LOCATED AS<br/>SHOWN IN THE NW1/4 NW1/4 OF SECTION 13,<br/>T 9 S, R 16 E, S L B &amp; M, DUCHESNE CO., UTAH</p> | <p>DATE May 23, 1964<br/>REFERENCES GLO Plat<br/>Approved Sept. 23, 1911</p> <p>FILE Pan Am</p> |
|--|--|---|

U-035521

|   |    |  |  |
|---|----|--|--|
| X |    |  |  |
|   | 13 |  |  |
|   |    |  |  |
|   |    |  |  |

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office

Lease No.

Unit

USA Pan American F-1  
"Tight Hole"

RECEIVED  
SUNDRY NOTICES AND REPORTS ON WELLS

JUN 17 1964

|  |  |   |
|--|--|---|
| NOTICE OF INTENTION TO DRILL                   | SUBSEQUENT REPORT OF WATER SHUT-OFF        |   |
| NOTICE OF INTENTION TO CHANGE PLANS            | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING |   |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF     | SUBSEQUENT REPORT OF ALTERING CASING       | X |
| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR |   |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE        | SUBSEQUENT REPORT OF ABANDONMENT           |   |
| NOTICE OF INTENTION TO PULL OR ALTER CASING    | SUPPLEMENTARY WELL HISTORY                 |   |
| NOTICE OF INTENTION TO ABANDON WELL            |  |   |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

CONFIDENTIAL

TIGHT HOLE

June 15, 1964

Well No. 1 is located 660 ft. from N line and 660 ft. from W line of sec. 13

C NW NW Sec. 13 9 S 16 E  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Unnamed Duchesne Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is unknown ft. RDB to ground 12'

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

At a depth of 310', cemented 297' of 10-3/4" 32.75# H-40 Casing at 300' with 230 sacks. Good circulation.

Approved JUN 17 1964

(ORIG. SGD.) R. A. SMITH  
District Engineer

TIGHT HOLE

CONFIDENTIAL

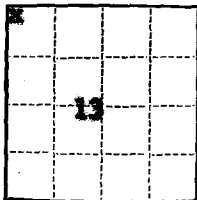
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Pan American Petroleum Corporation

Address P. O. Box 40  
Casper, Wyoming 82602

Original Signed By  
By O. WISE E. O. Wise

Title District Services Supervisor



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
NOT FOR PUBLIC INSPECTION

Land Office **Salt Lake**  
Lease No. **U-035521**  
Unit **USA Pan American F-1**  
**"Tight Hole"**

SUNDRY NOTICES AND REPORTS ON WELLS

|   |   |
|---|---|
| NOTICE OF INTENTION TO DRILL.....                   | SUBSEQUENT REPORT OF WATER SHUT-OFF.....        |
| NOTICE OF INTENTION TO CHANGE PLANS.....            | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING..... |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....     | SUBSEQUENT REPORT OF ALTERING CASING.....       |
| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL..... | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR..... |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....        | SUBSEQUENT REPORT OF ABANDONMENT.....           |
| NOTICE OF INTENTION TO PULL OR ALTER CASING.....    | SUPPLEMENTARY WELL HISTORY.....                 |
| NOTICE OF INTENTION TO ABANDON WELL.....            |   |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

July 13

1964

Well No. 1 is located 660 ft. from N line and 660 ft. from E line of sec. 13  
NW NW Sec. 13 9S 16E Salt Lake  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
--West-Pariette-Bench Duchesne Utah  
Monument Butte (County or Subdivision) (State or Territory)

The elevation of the ~~surface~~ **RDB** above sea level is 5540 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Well was drilled to a total depth of 6000' without encountering a commercial show of oil or gas. It is our intention to abandon this well by placing cement plugs as follows:

30 sack plug 5880-5995  
30 sack plug 4700-4778  
30 sack plug 1415-1490  
30 sack plug 274-344

10 sack plug at the surface with marker erected.

APPROVED

JUL 14 1964

ACTING DISTRICT ENGINEER

Confirming verbal approval Brown to Ross 6-26-64. Will submit Subsequent Report of Abandonment when location has been cleaned and restored to original contour.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Pan American Petroleum Corporation**

Address **P. O. Box 40**

**Casper, Wyoming 82602**

Original Signed  
**E. O. WISE**

By **E. O. Wise**

Title **District Services Supervisor**

PAN AMERICAN PETROLEUM CORPORATION  
WELL STATUS AND PRODUCTION REPORT

FIELD: EXPL  
LEASE: USA PAN AMERICAN F  
COUNTY: DUCHESNE STATE: UTAH  
FOR MONTH OF: JUNE 1964

TOTAL SALES FOR MONTH

NONE BBLs. OIL

NONE MCF GAS

ACCT. DEPT. USE  
PAGE 1 42-921  
G2 U1  
FLD 990 11 GR

| TYPE<br>LEASE | GOVERNMENT<br>LEASE<br>NUMBER | WELL<br>NO. | POOL      | LOCATION     |     |      |      | WELL TEST DATA (DAILY RATE) |              |                |          |            |                  |              |                  |                |                  | GRAVITY<br>OIL OR GAS | STATUS | DAYS OPER. | CURRENT MONTH PRODUCTION |                |                  | CUMULATIVE PRODUCTION |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|               |                               |             |           | QTR.<br>QTR. | SEC | TWP. | RNG. | TEST<br>DATE                | OIL<br>BBLs. | WATER<br>BBLs. | %<br>WTR | GAS<br>MCF | GAS/OIL<br>RATIO | LS OR<br>TPF | SPM<br>OR<br>CKE | OIL<br>BARRELS | WATER<br>BARRELS |                       |        |            | GAS<br>MCF               | OIL<br>BARRELS | WATER<br>BARRELS | GAS<br>MCF            |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|               |                               |             |           |              |     |      |      |                             |              |                |          |            |                  |              |                  |                |                  |                       |        |            |                          |                |                  |                       | MO. | DAY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| G U           | 035521                        |             | 1WASNNW13 |              |     | 9S   | 16E  |                             |              |                |          |            |                  |              |                  |                |                  | 72                    |        |            |                          |                |                  |                       |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

**U-035521**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

**USA Pan American "7"**

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

**Wildcat**

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA

**Sec. 13 - T9S-R16E**

12. COUNTY OR PARISH

**Duchessne**

13. STATE

**Utah**

19. ELEV. CASINGHEAD

1a. TYPE OF WELL:

OIL WELL ☐GAS WELL ☐DRY ☒ Other

b. TYPE OF COMPLETION:

NEW WELL ☒WORK OVER ☐DEEP-EN ☐PLUG BACK ☐DIFF. RESVR. ☐

Other

2. NAME OF OPERATOR

**Pan American Petroleum Corporation**

3. ADDRESS OF OPERATOR

**P. O. Box 40, Casper, Wyoming 82602**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface

**660 FNL, 660 FNL, NW NW Sec. 13 - T9S-R16E**

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

**6-3-64**

16. DATE T.D. REACHED

**6-25-64**

17. DATE COMPL. (Ready to prod.)

**Dry Hole**

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

**RDB 5540, GMD. 5528**

20. TOTAL DEPTH, MD &amp; TVD

**6000'**

21. PLUG, BACK T.D., MD &amp; TVD

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

**Dry Hole****No**

26. TYPE ELECTRIC AND OTHER LOGS RUN

**IES, Gamma Ray Sonic, Dipmeter**

27. WAS WELL CORED

**Yes**

28. CASING RECORD (Report all strings set in well)

| CASING SIZE    | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE  | CEMENTING RECORD | AMOUNT PULLED |
|----------------|-----------------|----------------|------------|------------------|---------------|
| <b>10-3/4"</b> | <b>32.75#</b>   | <b>309'</b>    | <b>15"</b> | <b>230 sacks</b> | <b>None</b>   |
|                |                 |                |            |                  |               |
|                |                 |                |            |                  |               |
|                |                 |                |            |                  |               |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------|-------------|---------------|-------------|------|----------------|-----------------|
|      |          |             |               |             |      |                |                 |
|      |          |             |               |             |      |                |                 |
|      |          |             |               |             |      |                |                 |
|      |          |             |               |             |      |                |                 |

31. PERFORATION RECORD (Interval, size and number)

**Well not perforated.**

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)

AMOUNT AND KIND OF MATERIAL USED

33.\*

PRODUCTION

DATE FIRST PRODUCTION

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

WELL STATUS (Producing or shut-in)

**No production****Abandoned**

| DATE OF TEST        | HOURS TESTED    | CHOKE SIZE              | PROD'N. FOR TEST PERIOD | OIL—BBL. | GAS—MCF.   | WATER—BBL.              | GAS-OIL RATIO |
|---------------------|-----------------|-------------------------|-------------------------|----------|------------|-------------------------|---------------|
|                     |                 |                         |                         |          |            |                         |               |
| FLOW. TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE | OIL—BBL.                | GAS—MCF. | WATER—BBL. | OIL GRAVITY-API (CORR.) |               |
|                     |                 |                         |                         |          |            |                         |               |

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

**/s/ E. O. Wise****E. O. Wise**TITLE **District Services Supervisor**DATE **August 5, 1964**

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

## 37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

| FORMATION                |            | TOP   | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME  | MEAS. DEPTH                               | TRUE VERT. DEPTH |
|--------------------------|------------|---|--------|-----------------------------|---|---|------------------|
| <u>Cored Interval:</u>   |            |   |        |                             |   |   |                  |
| Core #1:                 | 5030-5086. | Recovered 56'.  |        |                             | <u>Log Tops:</u><br>Green River<br>Garden Gulch<br>Garden Gulch "X"<br>Garden Gulch "Y"<br>Wasatch  | 1458'<br>3625'<br>4636'<br>5010'<br>5920' |                  |
| <u>Drill Stem Tests:</u> |            |   |        |                             | <u>Plugging Record:</u>   |   |                  |
| DST #1:                  | 4740-4768. | Tool open 5 min. with strong blow. ISI 30 min. Tool open 90 min. with strong blow. Gas to surface in 35 min. Closed tool for a 60 min. final closed in pressure. Recovered 20' slightly gas cut mud, slight oil stain on tool. IHP 2377, FHP 2377, ISIP 1268, F SIP 1815, IFF 48, FFF 32. |        |                             | 30 sack plug 5080-5995<br>30 sack plug 4700-4775<br>30 sack plug 1415-1490<br>30 sack plug 274-344<br>10 sack plug at the surface with dry hole marker. |   |                  |
| DST #2:                  | 5030-5086. | Initial open 5 min., ISI 30 min. Tool open 1 hr. FSI 60 min. Opened with very weak blow. Tool open with very weak blow and died in 10 min. Recovered 5' of oil with slight scum of oil. IHP 2501, FHP 2501, IFF 21, FFF 21, ISIP 43, FSI 43. Bottom hole temperature 140°.                |        |                             |   |   |                  |
| DST #3:                  | 3802-3863. | Tool opened with very weak blow for 20 min. Ranted tool for a 60 min. Initial closed in pressure. Ramped tool with no blow, increasing to very weak blow in 12 min. Took a 60 min. final closed in pressure. No gas to surface. IHP 1904, FHP 1904, IFF 265, FFF 319, ISIP 1466, FSI 1465 |        |                             |   |   |                  |

AUG 7 1967

CULTURAL RESOURCE INVENTORY OF  
INLAND RESOURCES' FOUR 40-ACRE PARCELS  
NEAR PARIETTE BENCH (T 9S, R 17E, Sec. 20;  
T 9S, R 16E, Sec. 13; T 8S, R 17E, Sec. 23 and 25),  
UINTAH AND DUCHESNE COUNTIES, UTAH.

by

Andy Wakefield  
and  
Keith R. Montgomery

Prepared For:

Bureau of Land Management  
Vernal Field Office

Prepared Under Contract With:

Inland Resources  
Route 3, Box 3630  
Myton, UT 84052

Prepared By:

Montgomery Archaeological Consultants  
P.O. Box 147  
Moab, Utah 84532

MOAC Report No. 04-201

August 18, 2004

United States Department of Interior (FLPMA)  
Permit No. 04-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-04-MQ-0782b



May 26, 1964

PAN AMERICAN PETROLEUM CORPORATION  
Box 1400  
Riverton, Wyoming

Attention: Mr. J. E. Lang, Area Superintendent

Re: Notice of Intention to Drill Well No.  
USA PAN AMERICAN F-#1, 660' FWL & 660'  
FWL, C NW NW of Section 13, T. 9 S. R.  
16 E., Duchesne County, Utah.

Gentlemen:

This letter is to confirm verbal approval given by Cleon B. Feight on May 25, 1964. However, this approval is conditional upon a surveyor's plat being furnished this office in accordance with Rule C-4(a), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission.

As soon as you have determined that it will be necessary to plug and abandon the above mentioned well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL, Chief Petroleum Engineer  
Office: DA 8-5771 or DA 8-5772  
Home: CR 7-2890 - Salt Lake City, Utah

This approval terminates within 90 days if this well has not been spudded within said period.

Enclosed please find Form OGCC-8-X, which is to be completed if water sands (aquifers) are encountered while drill, particularly assessable near surface water sands. Your cooperation with respect to completing this form will be greatly appreciated.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT  
EXECUTIVE DIRECTOR

CBF:kgw

cc: Rodney Smith, Dist. Eng., U. S. Geological Survey, Salt Lake City, Utah  
H. L. Coonts, Pet. Eng., Oil & Gas Conservation Commission, Moab, Utah

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
310 NEWHOUSE BUILDING  
SALT LAKE CITY 11, UTAH

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number: USA Pan American "F"

Operator Pan American Petroleum Corp Address P.O. Box 40, Casper, Wyo. Phone 307-235-1341

Contractor Exeter Drilling Company Address P.O. Box 813, Casper, Wyo. Phone \_\_\_\_\_

Location: NW 1/4 NW 1/4 Sec. 13 T. 9 S. R. 16 E. Duchesne County, Utah.

Water Sands: See remarks.

| <u>Depth</u> |           | <u>Volume</u>            | <u>Quality</u>        |
|--------------|-----------|--------------------------|-----------------------|
| <u>From</u>  | <u>To</u> | <u>Flow Rate or Head</u> | <u>Fresh or Salty</u> |
| 1.           | _____     | _____                    | _____                 |
| 2.           | _____     | _____                    | _____                 |
| 3.           | _____     | _____                    | _____                 |
| 4.           | _____     | _____                    | _____                 |
| 5.           | _____     | _____                    | _____                 |

(Continued on reverse side if necessary)

Formation Tops: Green River 1458  
Garden Gulch 3625  
Garden Gulch "K" 4636  
Garden Gulch "T" 5010  
Wasatch 5920

Remarks: water producing capacity tests were not taken on this well and is not known except as indicated by Drill Stem Tests.

**NOTE:** (a) Upon diminishing supply of forms, please inform the Commission  
 (b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure. (See back of form)

August 27, 1964

Pan American Petroleum Corporation  
P. O. Box 40  
Casper, Wyoming 82602

Attention: Mr. E. O. Wise, District Services Supervisor

Re: Well No. USA Pan American F-#1  
Sec. 13, T. 9 S., R. 16 E.,  
Duchesne County, Utah

Gentlemen:

This letter is to advise you that the electric and/or radioactivity logs for the above mentioned well are due and have not been filed with this Commission as required by our rules and regulations.

Please be advised that all information will be held confidential.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER  
RECORDS CLERK

KGW:be

NEWFIELD



February 3, 2005

State of Utah  
Division of Oil, Gas & Mining  
Attn: Diana Whitney  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill: Pan American #1FR-9-16.

Dear Diana:

Enclosed an find APD on the above referenced well. This is an application to re-enter a plugged well. If you have any questions, feel free to give either Brad or myself a call.

Sincerely,

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

RECEIVED

FEB 11 2005

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

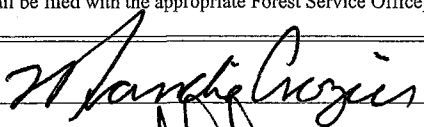
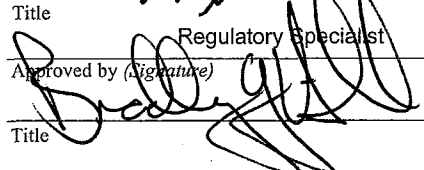
|   |                         |
|---|-------------------------|
| 5. Lease Serial No.                               | UTU-75039               |
| 6. If Indian, Allottee or Tribe Name              | N/A                     |
| 7. If Unit or CA Agreement, Name and No.          | N/A                     |
| 8. Lease Name and Well No.                        | Pan American #1FR-9-16  |
| 9. API Well No.                                   | 43-013-10822            |
| 10. Field and Pool, or Exploratory Monument Butte |                         |
| 11. Sec., T., R., M., or Blk. and Survey or Area  | NW/NW Sec. 13, T9S R16E |
| 12. County or Parish                              | Duchesne                |
| 13. State   | UT                      |

|  |   |  |
|--|---|--|
| 1a. Type of Work: <input type="checkbox"/> DRILL <input checked="" type="checkbox"/> REENTER   |   |  |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone |   |  |
| 2. Name of Operator<br>Newfield Production Company   |   |  |
| 3a. Address<br>Route #3 Box 3630, Myton UT 84052   | 3b. Phone No. (include area code)<br>(435) 646-3721       |  |
| 4. Location of Well (Report location clearly and in accordance with any State requirements.)*<br>At surface NW/NW 663' FNL 663' FWL 578999X 40.036264<br>At proposed prod. zone 4431983Y - 110.074062                  |   |  |
| 14. Distance in miles and direction from nearest town or post office*<br>Approximatley 18.2 miles south of Myton, Utah   |   |  |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 663' f/lse, NA f/unit  | 16. No. of Acres in lease<br>80.00                        | 17. Spacing Unit dedicated to this well<br>40 Acres                              |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 4181'   | 19. Proposed Depth<br>6000'                               | 20. BLM/BIA Bond No. on file<br>UTU0056  |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br>5529' GL  | 22. Approximate date work will start*<br>2nd Quarter 2005 | 23. Estimated duration<br>Approximately seven (7) days from spud to rig release. |

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. I, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

|   |  |                  |
|---|--|------------------|
| 25. Signature<br>          | Name (Printed/Typed)<br>Mandie Crozier                                 | Date<br>2/3/05   |
| Title<br>Regulatory Specialist  |  |                  |
| Approved by (Signature)<br> | Name (Printed/Typed)<br>BRADLEY G. HILL<br>ENVIRONMENTAL SCIENTIST III | Date<br>02-15-05 |
| Title<br>Environmental Scientist III  |  |                  |

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any Department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

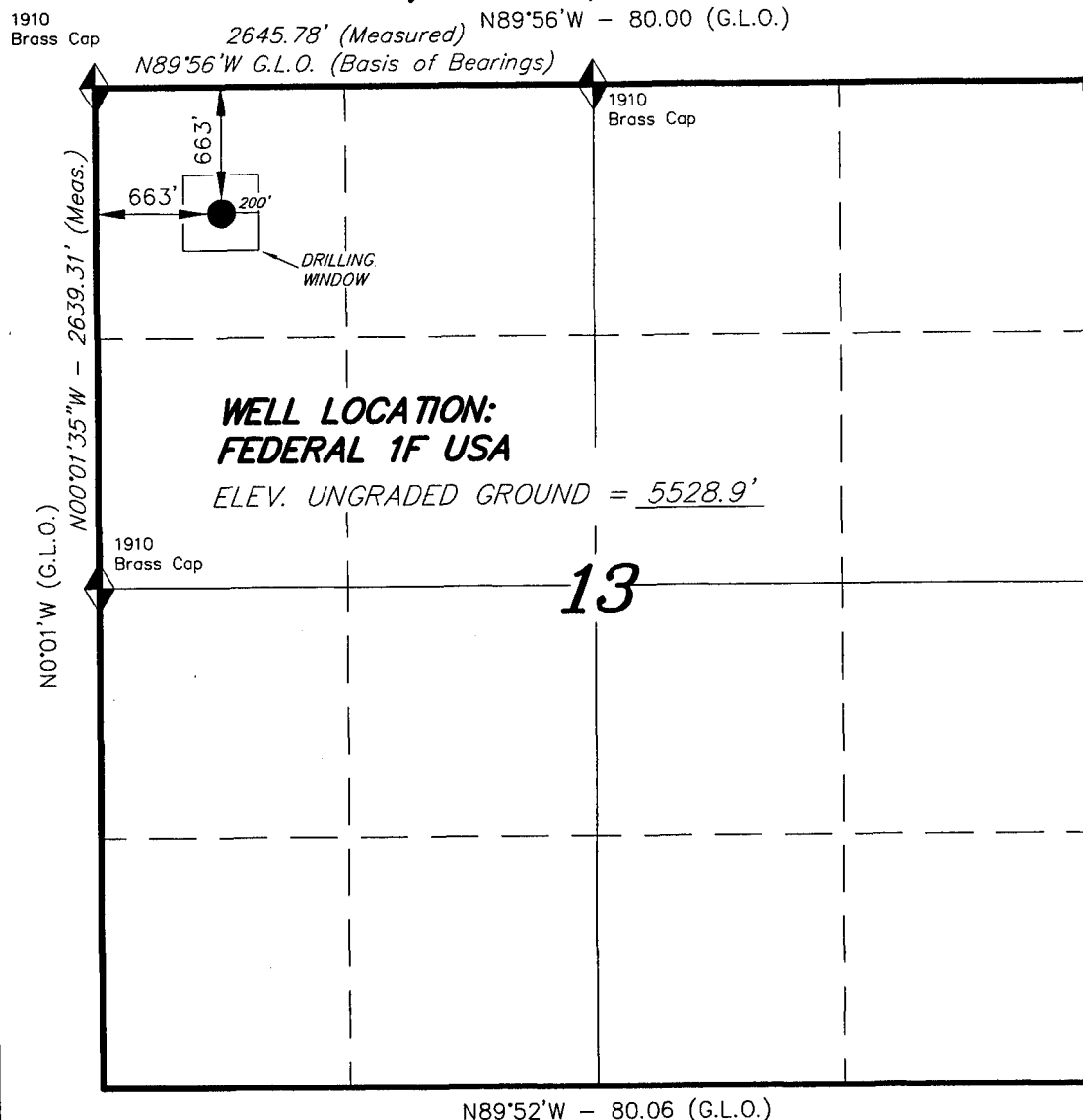
RECEIVED

FEB 11 2005

DIV. OF OIL, GAS & MINING

Federal Approval of this  
Action is Necessary

# T9S, R16E, S.L.B.&M.



◆ = SECTION CORNERS LOCATED

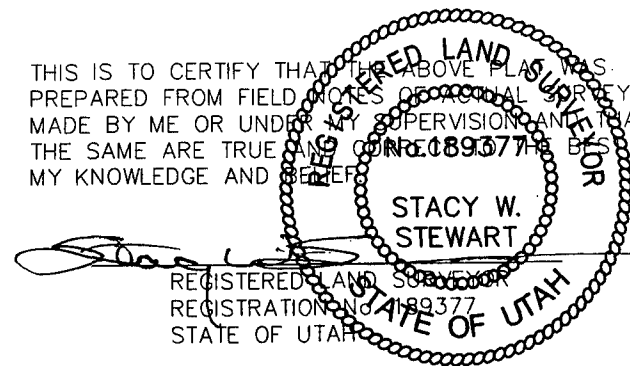
BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SE)

## INLAND PRODUCTION COMPANY

WELL LOCATION, FEDERAL 1F USA,  
LOCATED AS SHOWN IN THE NW 1/4 NW  
1/4 OF SECTION 13, T9S, R16E,  
S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF.



## TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

SCALE: 1" = 1000'

SURVEYED BY: D.J.S.

DATE: 3-12-04

DRAWN BY: R.V.C.

NOTES:

FILE #

NEWFIELD PRODUCTION COMPANY  
PAN AMERICAN #1FR-9-16  
NW/NW SECTION 13, T9S, R16E  
DUCHESNE COUNTY, UTAH

TEN POINT RE-ENTRY PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

|             |           |
|-------------|-----------|
| Uinta       | 0 – 1453' |
| Green River | 1453'     |
| Wasatch     | 6000'     |

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 1453' – 6000' – Oil

4. **PROPOSED CASING PROGRAM:**

Existing Surface Casing: Previously set at 309' of 10-3/4" 32.75#

Production Casing: 5-1/2" J-55, 15.5# w/LT&C collars; set at TD (New or used, inspected).

5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

This well will be re-entered and plugs will be drilled out with fresh water and KCL or KCL substitute. If necessary, to control formation fluids, the system will be weighted with the addition of bentonite gel, and if conditions warrant, barite. This fresh water system typically will contain Total Dissolved Solids (TDS) of less than 3000 PPM. Neither potassium chloride nor chromates will be utilized in the fluid system. The anticipated mud weight is 8.4 ppg and weighted as necessary for gas control.

**MUD PROGRAM**

309' – 6000'

**MUD TYPE**

fresh water system

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 309', and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBTD to cement top.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered; or that any other abnormal hazards such as H2S will be encountered in this area.

10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the re-entry operations will commence the second quarter of 2005, and take approximately four (4) days to complete.



NEWFIELD PRODUCTION COMPANY  
PAN AMERICAN #1FR-9-16  
NW/NW SECTION 13, T9S, R16E  
DUCHESNE COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. EXISTING ROADS

See attached **Topographic Map "A"**

To reach Newfield Production Company well location site Pan American #1FR-9-16 located in the NW¼ NW¼ Section 13, T9S, R16E, S.L.B. & M., Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 - 12.6 miles  $\pm$  to it's junction with an existing dirt road to the southwest; proceed southwesterly - 2.4 miles  $\pm$  to it's junction with an existing road to the south; proceed southeasterly and then southwesterly - 1.6 miles  $\pm$  to it's junction with the beginning of the proposed access road; proceed southwesterly along the proposed access road 685'  $\pm$  to the proposed well location.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County crews.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the re-entry process will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

2. PLANNED ACCESS ROAD

Approximately 685' of access road is proposed. See attached **Topographic Map "B"**.

The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade is less than 8%.

A 24" culvert will be installed along the proposed access road.

There are no fences encountered along this proposed road. There are no new gates or cattle guards required.

All construction material for this access road was borrowed material accumulated during construction of the access road.

3. LOCATION OF EXISTING WELLS

Refer to **EXHIBIT B**.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to BLM specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted Desert Tan. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Fresh water purchased from the Johnson Water District will be used for drilling. A temporary poly pipeline may be used for water transportation from our existing supply line from Johnson Water District, or trucked from Newfield Production Company's injection facilities – **EXHIBIT A**.

There will be no water well drilled at this site.

A 2" dry gas line will be run along the existing access road to supply dry gas to the rig.

6. **SOURCE OF CONSTRUCTION MATERIALS**

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (40' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the cement cuttings removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

8. **ANCILLARY FACILITIES:**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT:**  
See attached Location Layout Sheet.

**Fencing Requirements**

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. **PLANS FOR RESTORATION OF SURFACE:**

- a) **Producing Location**  
Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

- b) **Dry Hole Abandoned Location**  
At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

|                  |                              |            |
|------------------|------------------------------|------------|
| Gardner Saltbush | <i>Atriplex gardneri</i>     | 4 lbs/acre |
| Galleta Grass    | <i>Hilaria jamesii</i>       | 4 lbs/acre |
| Shadscale        | <i>Atriplex centerifolia</i> | 3 lbs/acre |
| Black Sagebrush  | <i>Artemisia nova</i>        | 1 lbs/acre |

11. **SURFACE OWNERSHIP:** Bureau of Land Management

12. **OTHER ADDITIONAL INFORMATION:**

Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.

Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.

Drilling rigs and/or equipment used during re-entry operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

Newfield Production Company requests a 2495' ROW in Lease UTU-035521A and 685' of disturbed area be granted in Lease UTU-75039 to allow for construction of the proposed gas lines. It is proposed that the ROW and disturbed area will be 50' wide to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

Newfield Production Company requests a 2495' ROW in Lease UTU-035521A and 685' of disturbed area be granted in Lease UTU-75039 to allow for construction of the proposed water lines. It is proposed that the ROW and disturbed area will be 50' wide to allow for construction of a buried 3" steel water injection line and a 3" poly water return line. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #04-201, 8/18/04. Paleontological Resource Survey prepared by, Wade E. Miller, 1/8/04. See attached report cover pages, Exhibit "D".

#### **Threatened, Endangered, And Other Sensitive Species**

**Golden Eagle:** Due to this proposed well access roads proximity (less than 0.5 mile) to an existing inactive golden eagle nest site, no new construction or surface disturbing activities will be allowed between February 1 and July 15. If the nest remains inactive on July 15<sup>th</sup> (based on a pre-construction survey by a qualified biologist), the operator may construct and drill the location between July 15 and February 1 of the following year. If the nest site becomes active prior to July 15, no new construction or surface disturbing activities will be allowed within 0.5 mile of the nest until the nest becomes inactive for two full breeding seasons. In the event that this well becomes a producing well, it must be equipped with a multi-cylinder engine or hospital muffler to reduce noise levels.

#### **Details of the On-Site Inspection**

The proposed Pan American #1FR-9-16 was on-sited on 11/5/03. The following were present; Brad Mecham (Newfield Production), David Gerbig (Newfield Production), Byron Tolman (Bureau of Land Management), and a SWCA representative. Weather conditions were clear @ 30 degrees.

#### **Additional Surface Stipulations**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

**Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the Pan American #1FR-9-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the Pan American #1FR-9-16 Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

The BLM office shall be notified upon site completion prior to moving on the drilling rig.

13. **LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:**

Representative

Name: Brad Mecham  
Address: Newfield Production Company  
Route 3, Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #1FR-9-16, NW/NW Section 13, T9S, R16E, LEASE #UTU-75039, Duchesne County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Resources, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

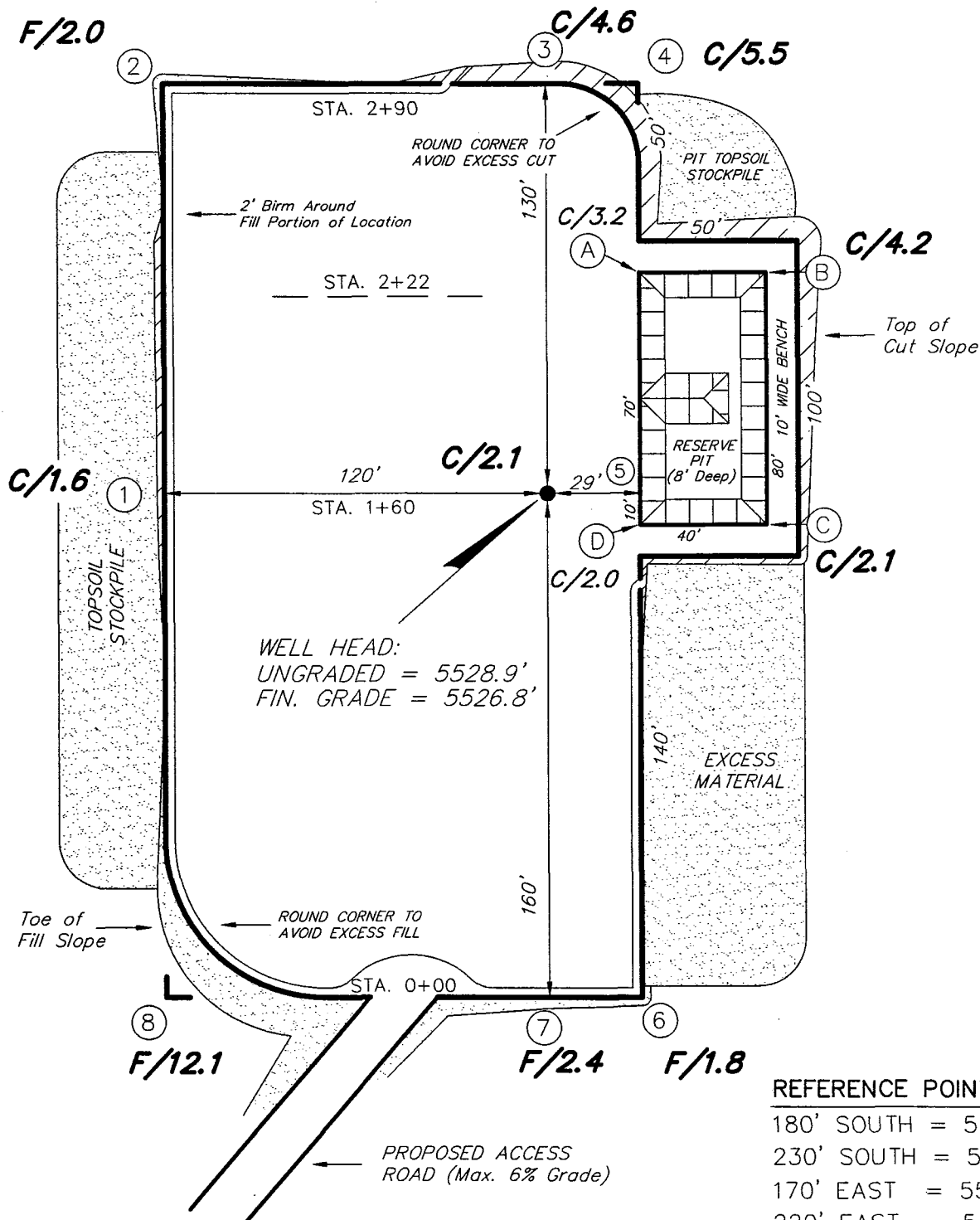
2/3/05  
Date

Mandie Crozier  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# INLAND PRODUCTION COMPANY

FEDERAL 1F USA

SECTION 13, T9S, R16E, S.L.B.&M.



## REFERENCE POINTS

180' SOUTH = 5529.8'  
230' SOUTH = 5530.2'  
170' EAST = 5524.6'  
220' EAST = 5519.2'

SURVEYED BY: D.J.S.

SCALE: 1" = 50'

DRAWN BY: R.V.C.

DATE: 3-12-04

Tri State  
Land Surveying, Inc.

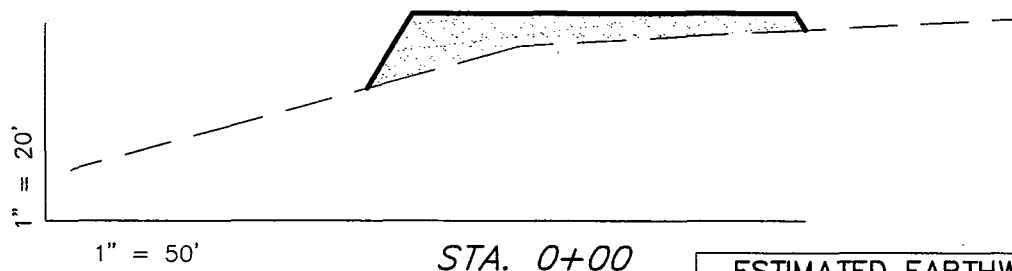
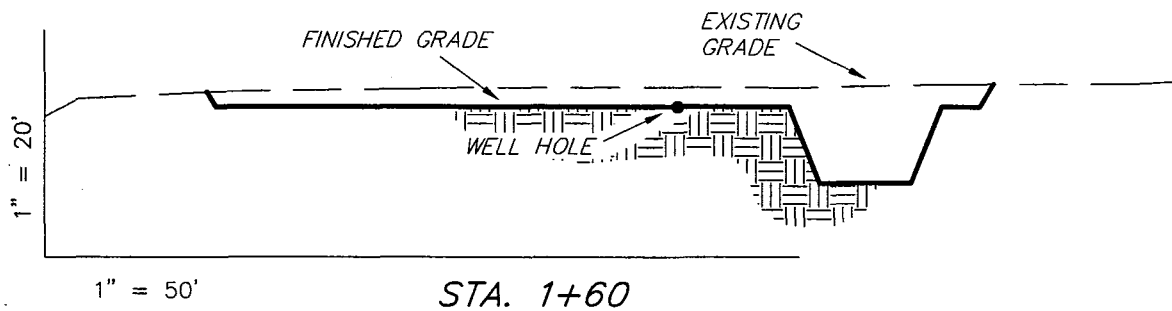
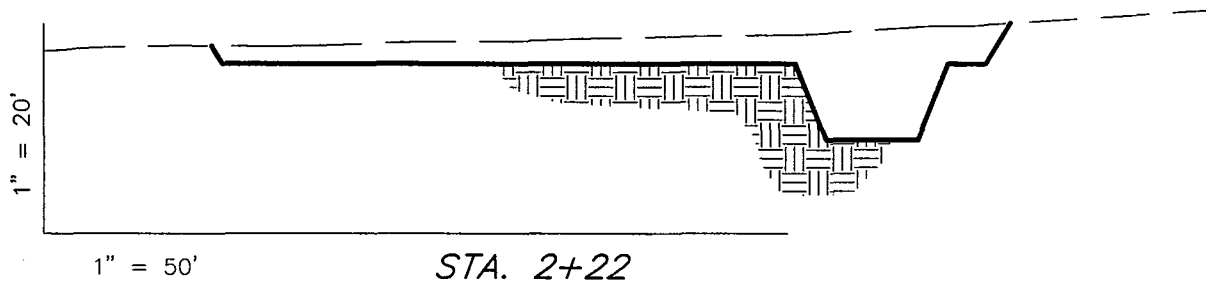
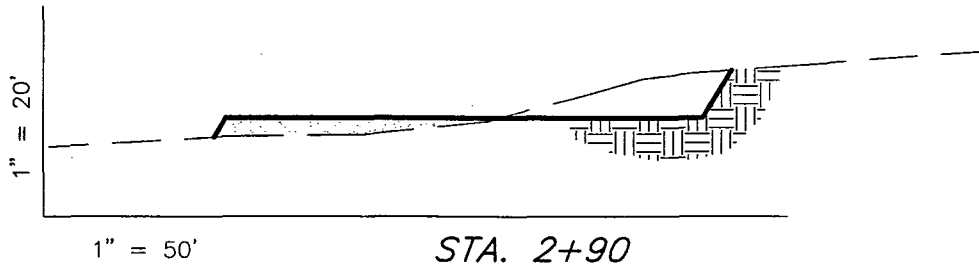
(435) 781-2501

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# INLAND PRODUCTION COMPANY

## CROSS SECTIONS

### FEDERAL 1F USA



NOTE:  
UNLESS OTHERWISE NOTED  
ALL CUT/FILL SLOPES ARE  
AT 1.5:1

#### ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)

| ITEM   | CUT   | FILL  | 6" TOPSOIL                               | EXCESS |
|--------|-------|-------|--|--------|
| PAD    | 2,100 | 2,100 | Topsoil is<br>not included<br>in Pad Cut | 0      |
| PIT    | 640   | 0     |  | 640    |
| TOTALS | 2,740 | 2,100 | 890                                      | 640    |

SURVEYED BY: D.J.S.

SCALE: 1" = 50'

DRAWN BY: R.V.C.

DATE: 3-12-04

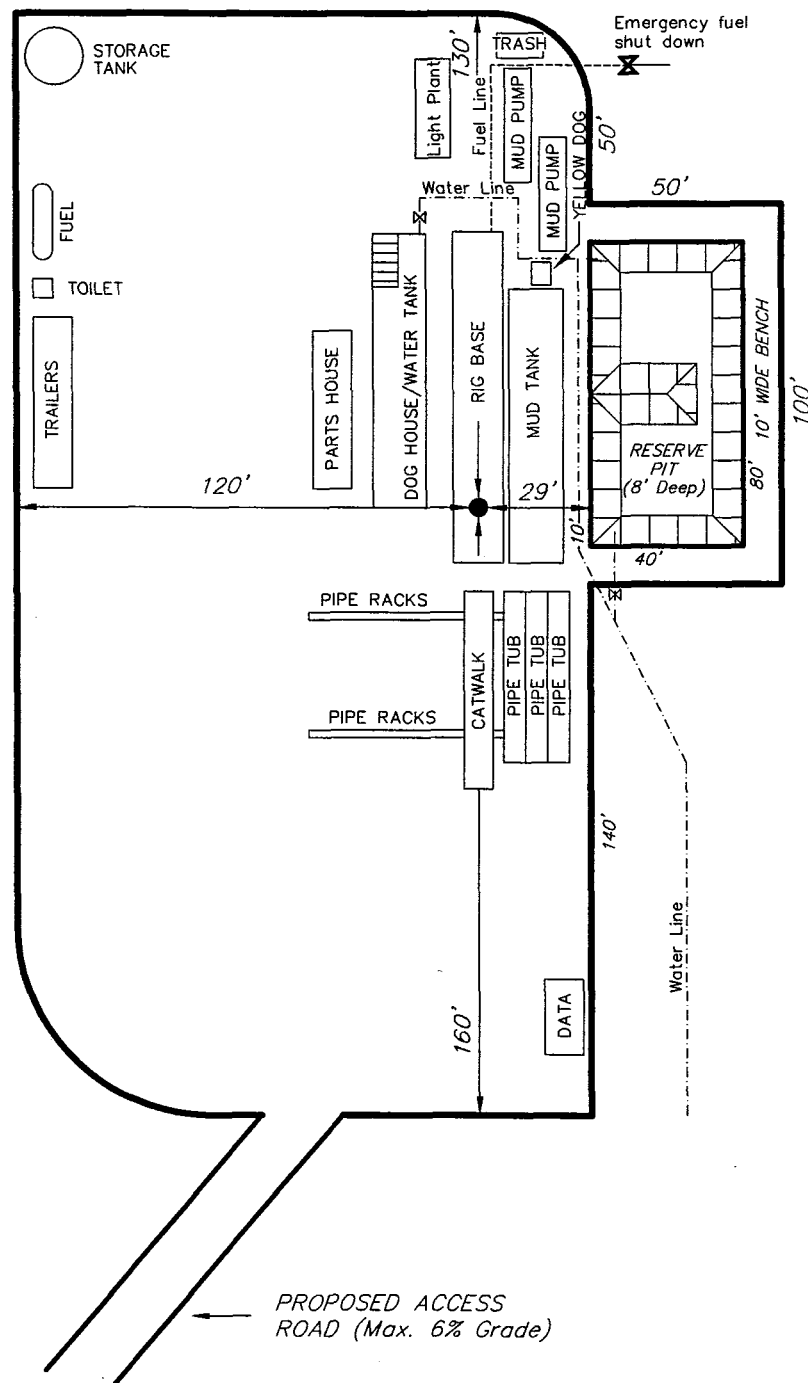
(435) 781-2501

**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# INLAND PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

### FEDERAL 1F USA



SURVEYED BY: D.J.S.

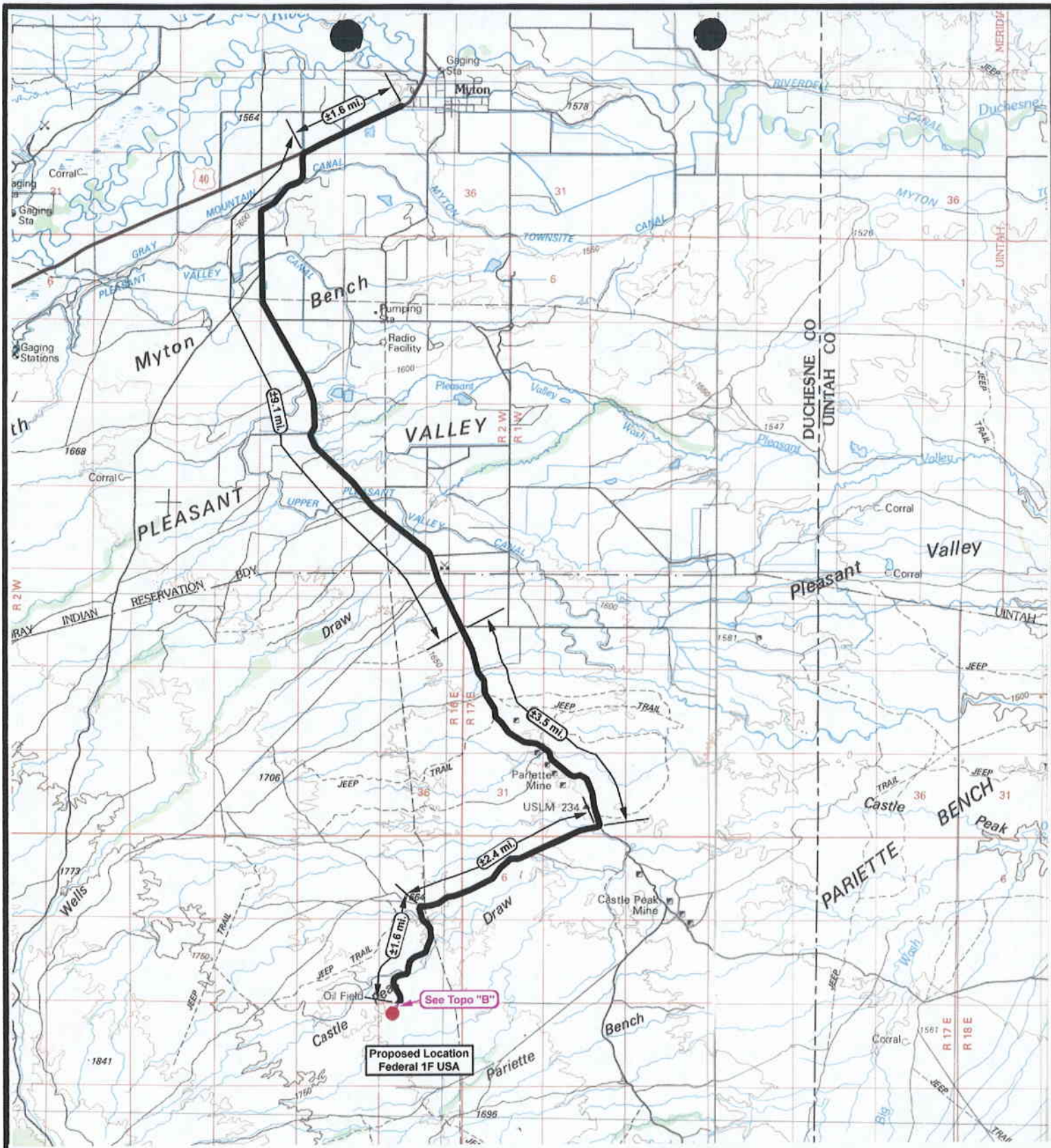
SCALE: 1" = 50'

DRAWN BY: R.V.C.

DATE: 3-12-04

**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
(435) 781-2501





**Federal 1F USA**  
**SEC. 13, T9S, R16E, S.L.B.&M.**



**Tri-State**  
**Land Surveying Inc.**  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000  
DRAWN BY: bgm  
DATE: 06-24-2004

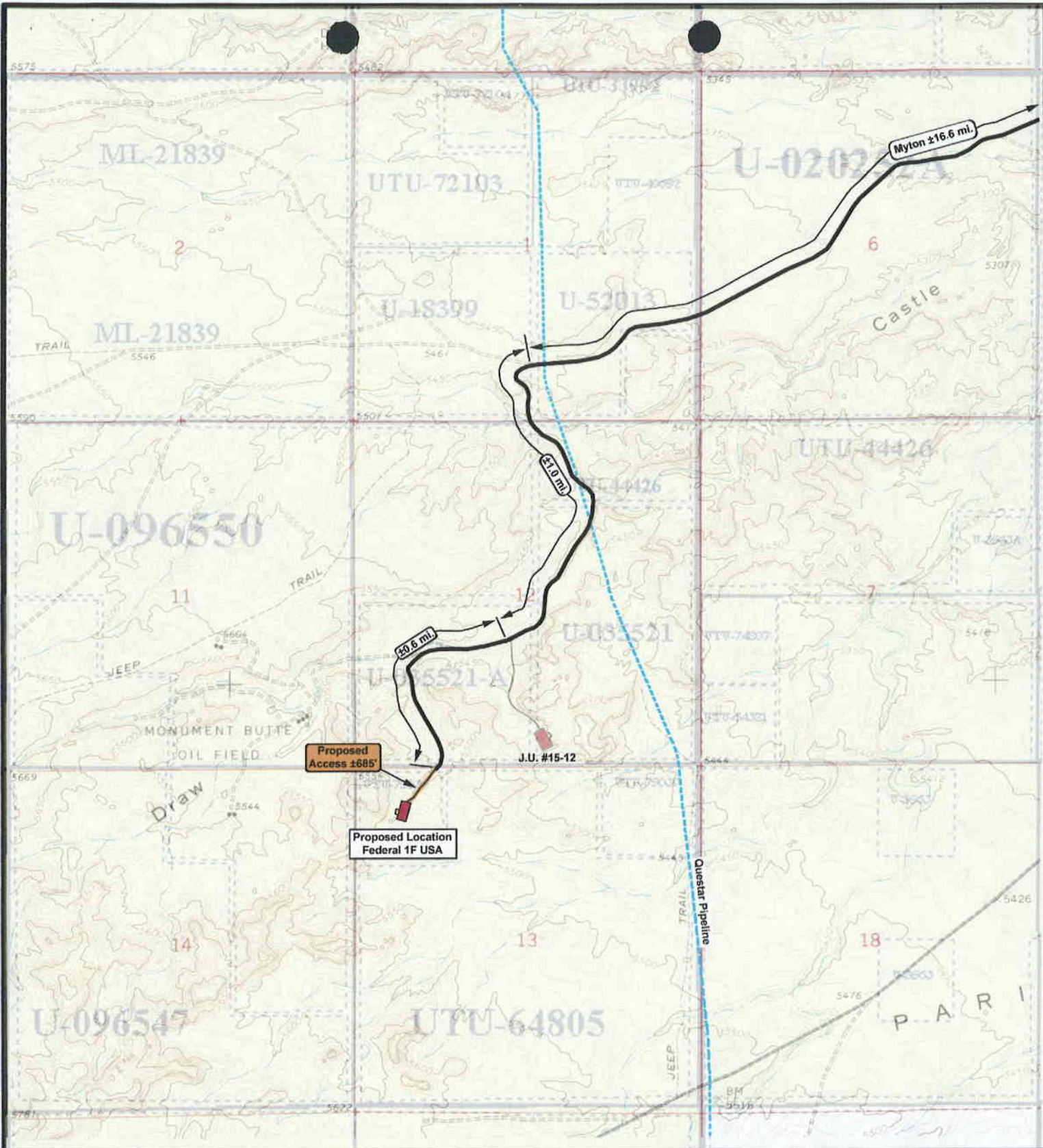
**Legend**

- Existing Road
- Proposed Access

TOPOGRAPHIC MAP

**"A"**





**Federal 1F USA**  
**SEC. 13, T9S, R16E, S.L.B.&M.**



**Tri-State**  
*Land Surveying Inc.*  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2000'  
 DRAWN BY: bgm  
 DATE: 06-24-2004

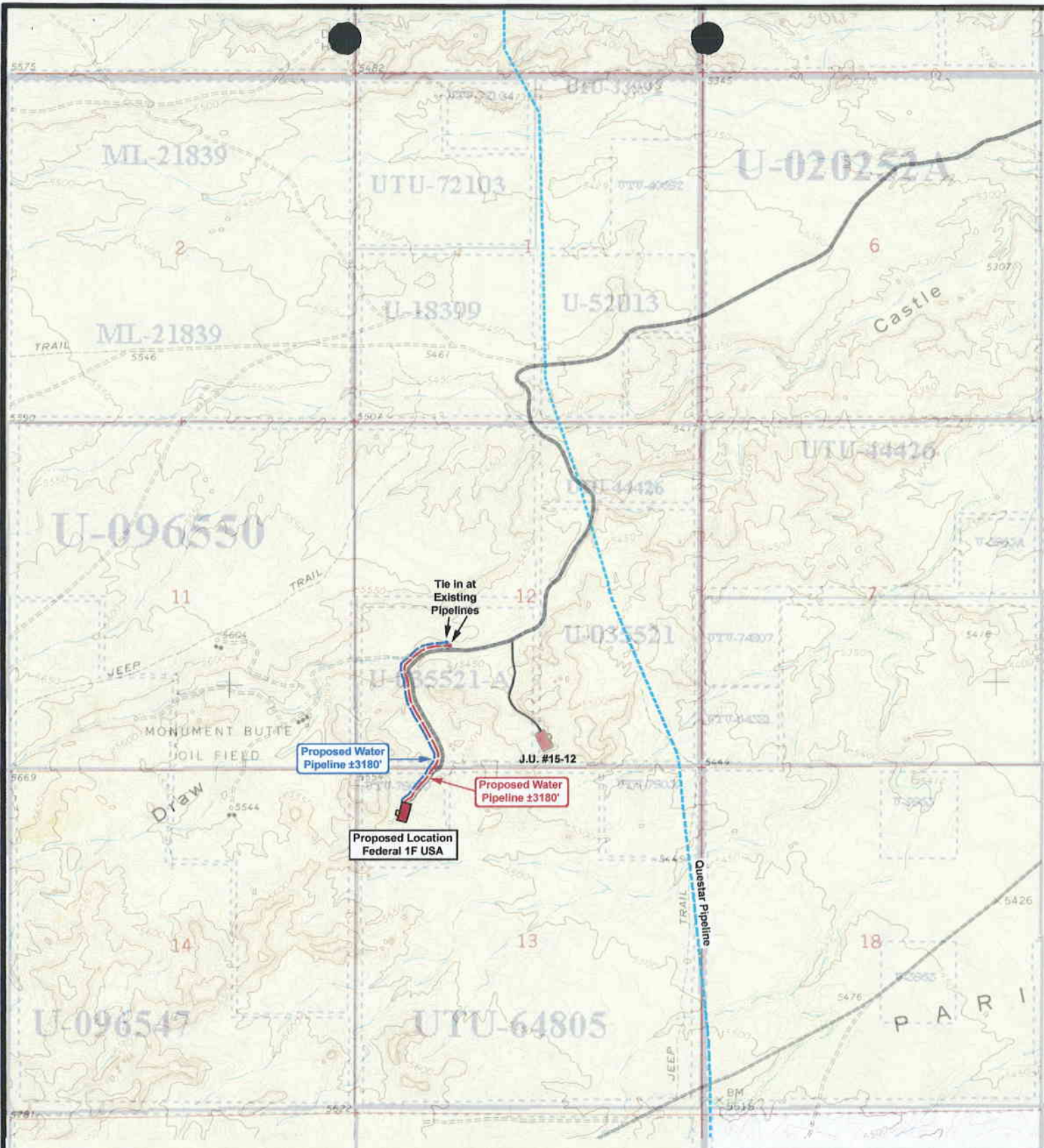
**Legend**

- Existing Road
- Access to Upgrade
- Questar Pipeline

TOPOGRAPHIC MAP

**"B"**





**Federal 1F USA**  
**SEC. 13, T9S, R16E, S.L.B.&M.**



**Tri-State**  
*Land Surveying Inc.*  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2000'

DRAWN BY: bgm

DATE: 06-24-2004

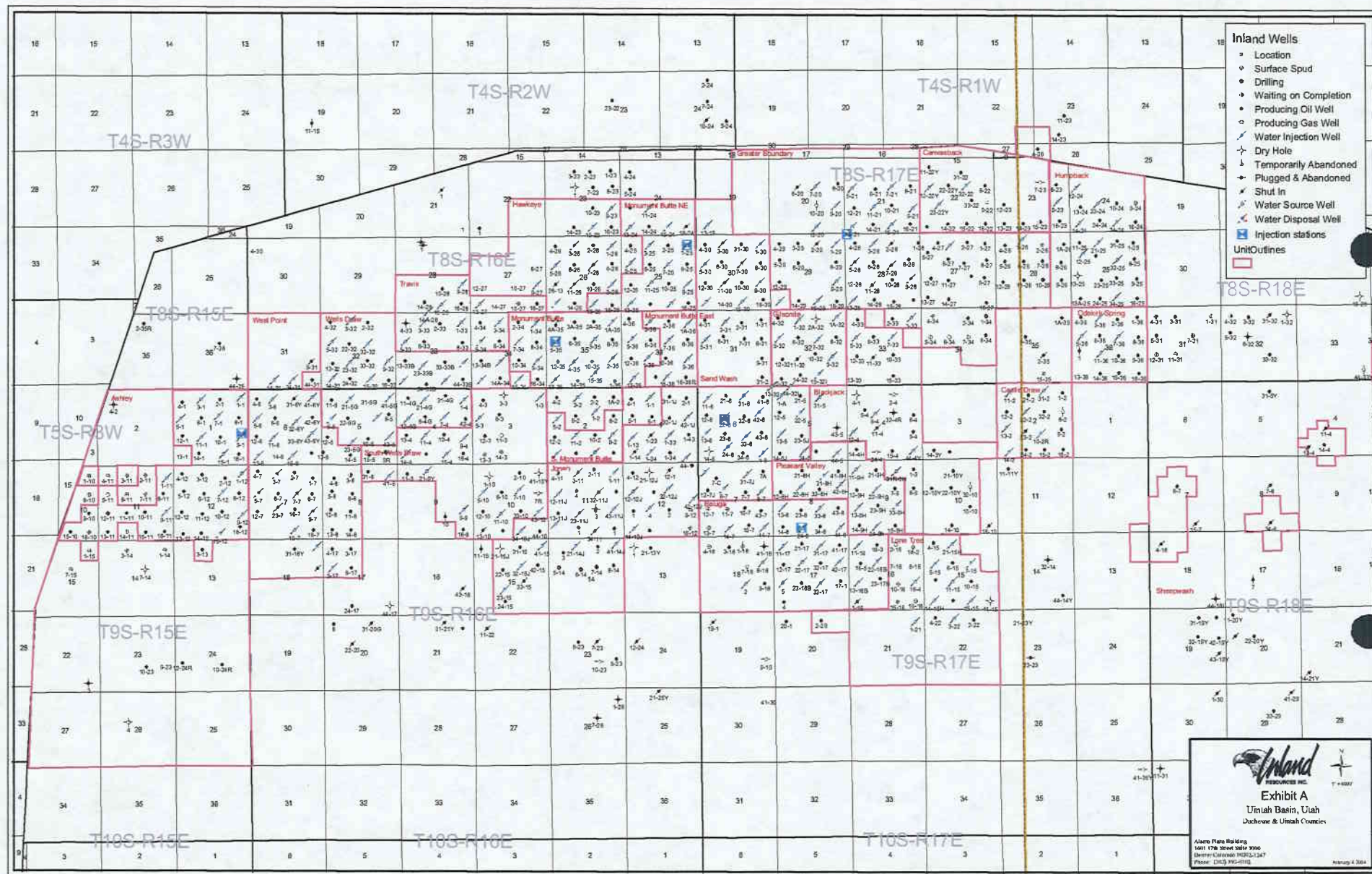
**Legend**

- Existing Road
- - - Proposed Gas Line
- - - Proposed Water Line
- - - Questar Pipeline

TOPOGRAPHIC MAP

**"C"**





**Inland**  
RESOURCES INC.

**Exhibit A**  
Utah Basin, Utah  
Duchow & Utah Counties

Alamo Plaza Building  
1401 17th Street, Suite 3000  
Denver, Colorado 80202-1347  
Phone: 303.733.0000

January 4, 2004





# 2-M SYSTEM

Blowout Prevention Equipment Systems

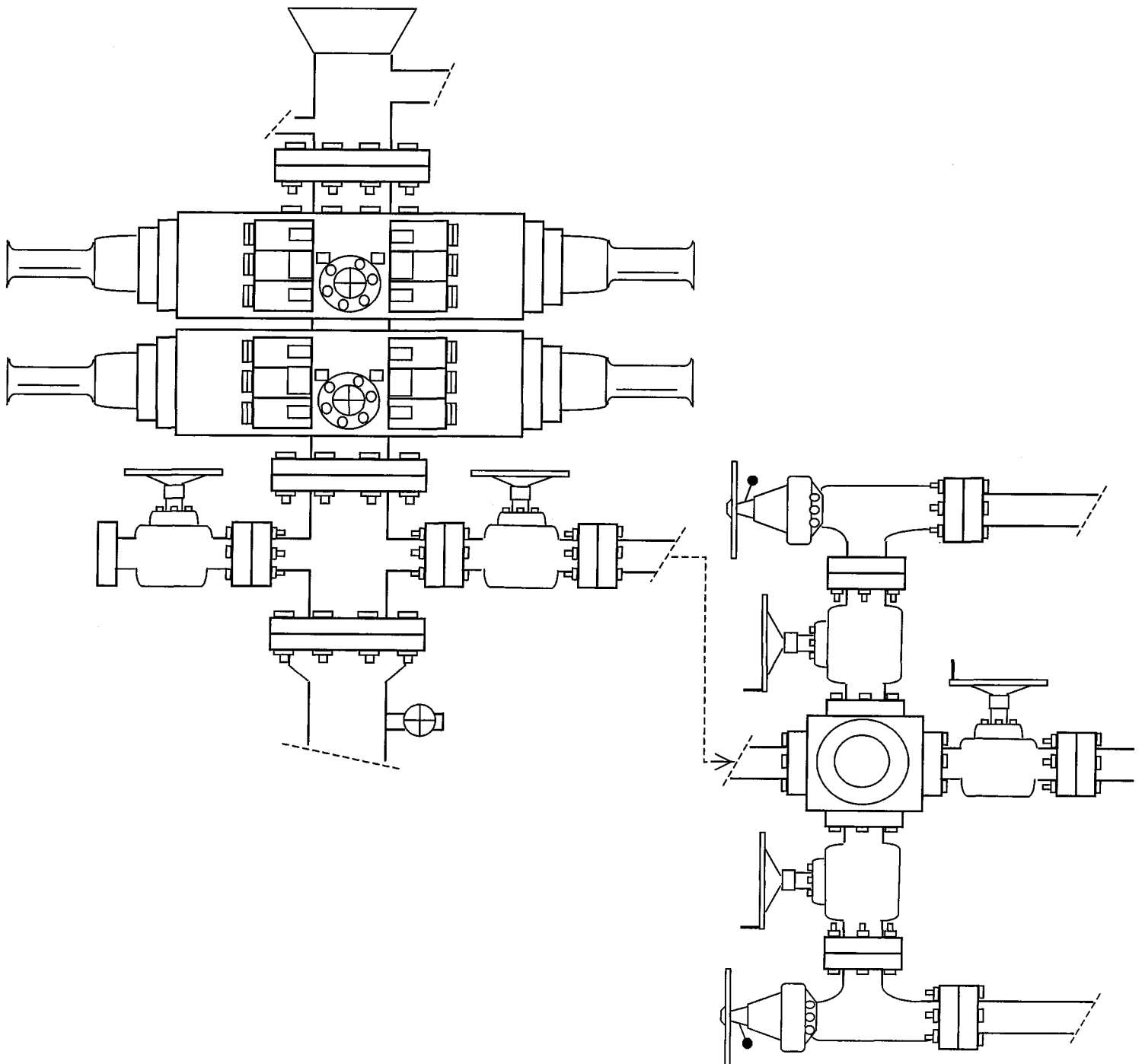


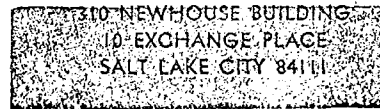
EXHIBIT C

COMMISSIONERS  
C. R. HENDERSON  
CHAIRMAN  
M. V. HATCH  
C. S. THOMSON  
B. H. CROFT  
C. P. OLSON  
EXECUTIVE DIRECTOR  
C. B. FEIGHT



PETROLEUM ENGINEERS  
PAUL W. BURCHELL  
CHIEF ENGINEER  
SALT LAKE CITY  
HARVEY L. COONTS  
BOX 266  
MOAB, UTAH

THE STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION



348 East South Temple  
Suite 301  
Salt Lake City, Utah

February 26, 1965

RECEIVED  
MAR 1 1965  
[Handwritten initials and a grid table]

Pan American Petroleum Corporation  
P. O. Box 40  
Casper, Wyoming

Attention: Mr. E. O. Wise, Dist. Services Supervisor

Re: Well No. USA Pan American "F"-#1  
Sec. 13, T. 9 S., R. 16 E.,  
Duchesne County, Utah

Gentlemen:

We are in receipt of your "Well Completion or Recompletion Report and Log", for the above mentioned well. However, upon checking, we find that the plugged and abandonment date was omitted. We would appreciate you furnishing us with said date as soon as possible.

Thank you.

Very truly yours,

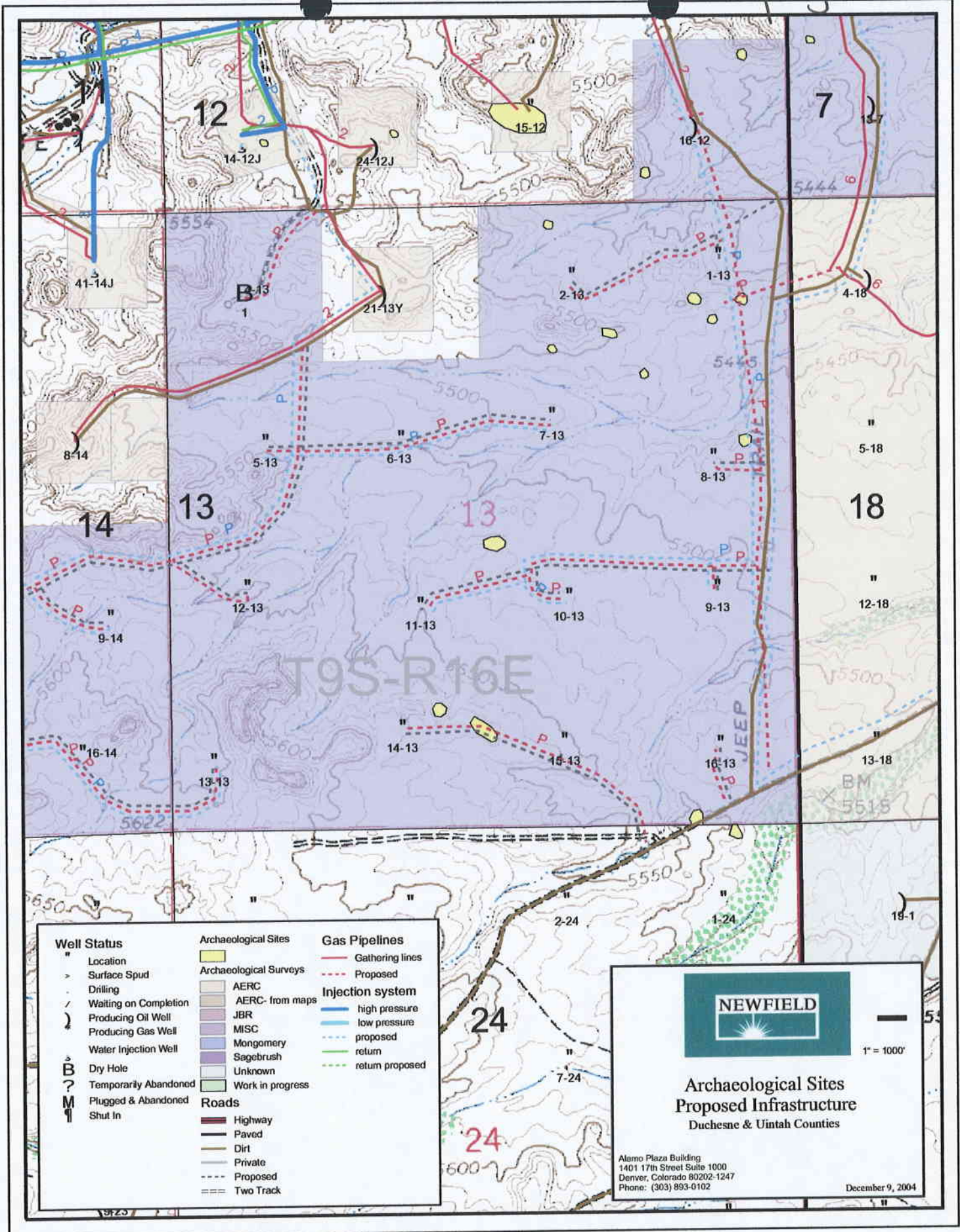
OIL & GAS CONSERVATION COMMISSION

*Kathy G. Warner*  
KATHY G. WARNER  
RECORDS CLERK

kgw

PXA 6/28/64





#### Well Status

- " Location
- > Surface Spud
- Drilling
- Waiting on Completion
- Producing Oil Well
- Producing Gas Well
- Water Injection Well
- Dry Hole
- Temporarily Abandoned
- Plugged & Abandoned
- Shut In

#### Archaeological Sites

- Archaeological Surveys
- AERC
- AERC- from maps
- JBR
- MISC
- Montgomery
- Sagebrush
- Unknown
- Work in progress

#### Roads

- Highway
- Paved
- Dirt
- Private
- Proposed
- Two Track

#### Gas Pipelines

- Gathering lines
- Proposed

#### Injection system

- high pressure
- low pressure
- proposed
- return
- return proposed



#### Archaeological Sites Proposed Infrastructure Duchesne & Uintah Counties

Alamo Plaza Building  
1401 17th Street Suite 1000  
Denver, Colorado 80202-1247  
Phone: (303) 893-0102

December 9, 2004



**INLAND RESOURCES, INC.**

**PALEONTOLOGICAL FIELD SURVEY OF PROPOSED  
PRODUCTION DEVELOPMENT AREAS,  
DUCHESNE COUNTY, UTAH**

(NE 1/4, SE 1/4, Sec. 10, T 9 S, R 17 E; SE 1/4, NW 1/4 &  
SW 1/4, NE 1/4, Sec. 29, T 8 S, R 17 E; South 1/2 Sec. 14  
T 9 S, R 16 E; and NW 1/4, Sec. 13, T 9 S, R 16 E)

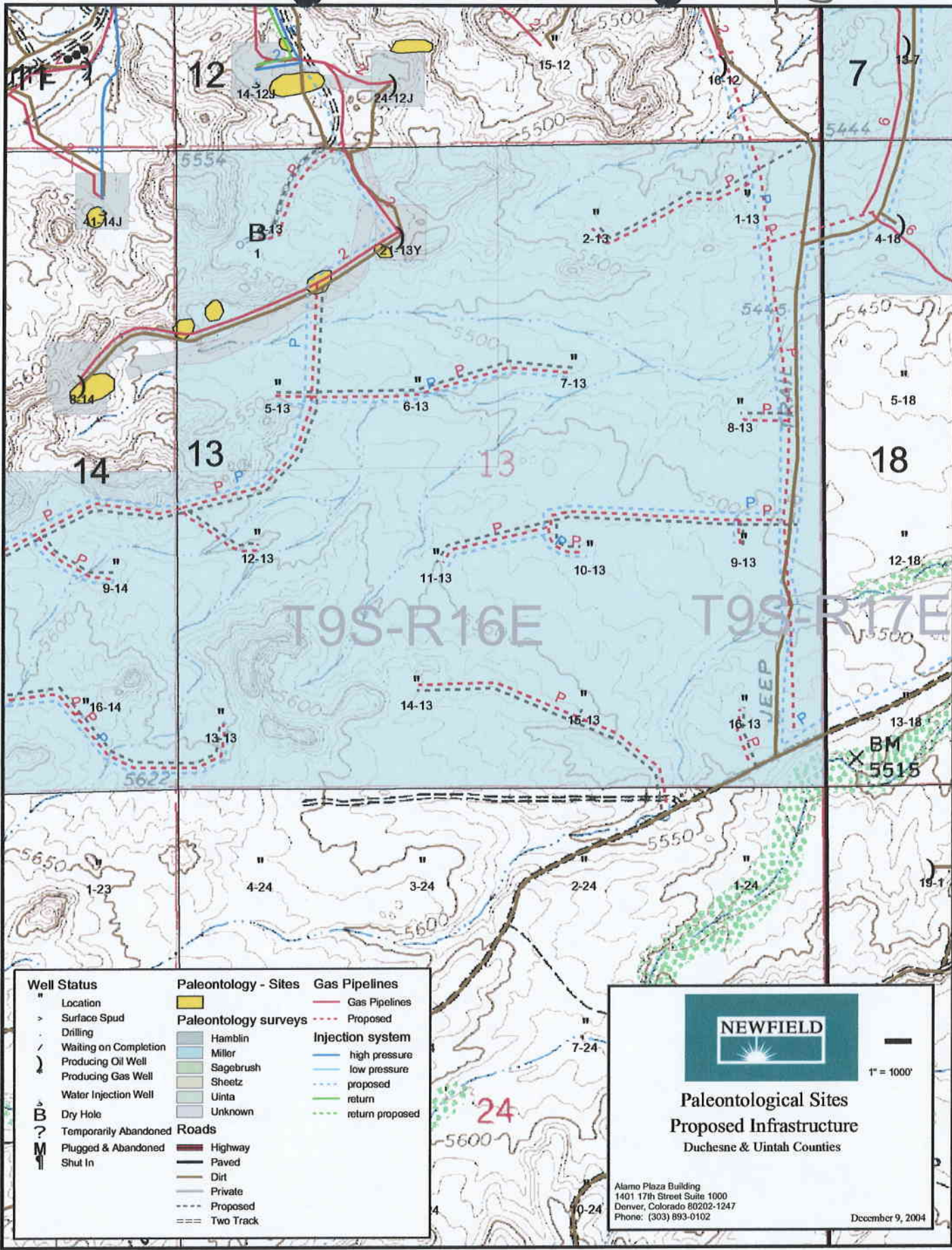
**REPORT OF SURVEY**

Prepared for:

**Inland Resources, Inc.**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
January 8, 2004



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 02/11/2005

API NO. ASSIGNED: 43-013-10822

WELL NAME: PAN AMERICAN #1FR-9-16

OPERATOR: NEWFIELD PRODUCTION ( N2695 )

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NWNW 13 090S 160E

SURFACE: 0663 FNL 0663 FWL

BOTTOM: 0663 FNL 0663 FWL

DUCHESNE

MONUMENT BUTTE ( 105 )

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-75039

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /

| Tech Review | Initials | Date |
|-------------|----------|------|
| Engineering |          |      |
| Geology     |          |      |
| Surface     |          |      |

LATITUDE: 40.03626

LONGITUDE: -110.0741

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTU0056 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. MUNICIPAL )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)

LOCATION AND SITING:

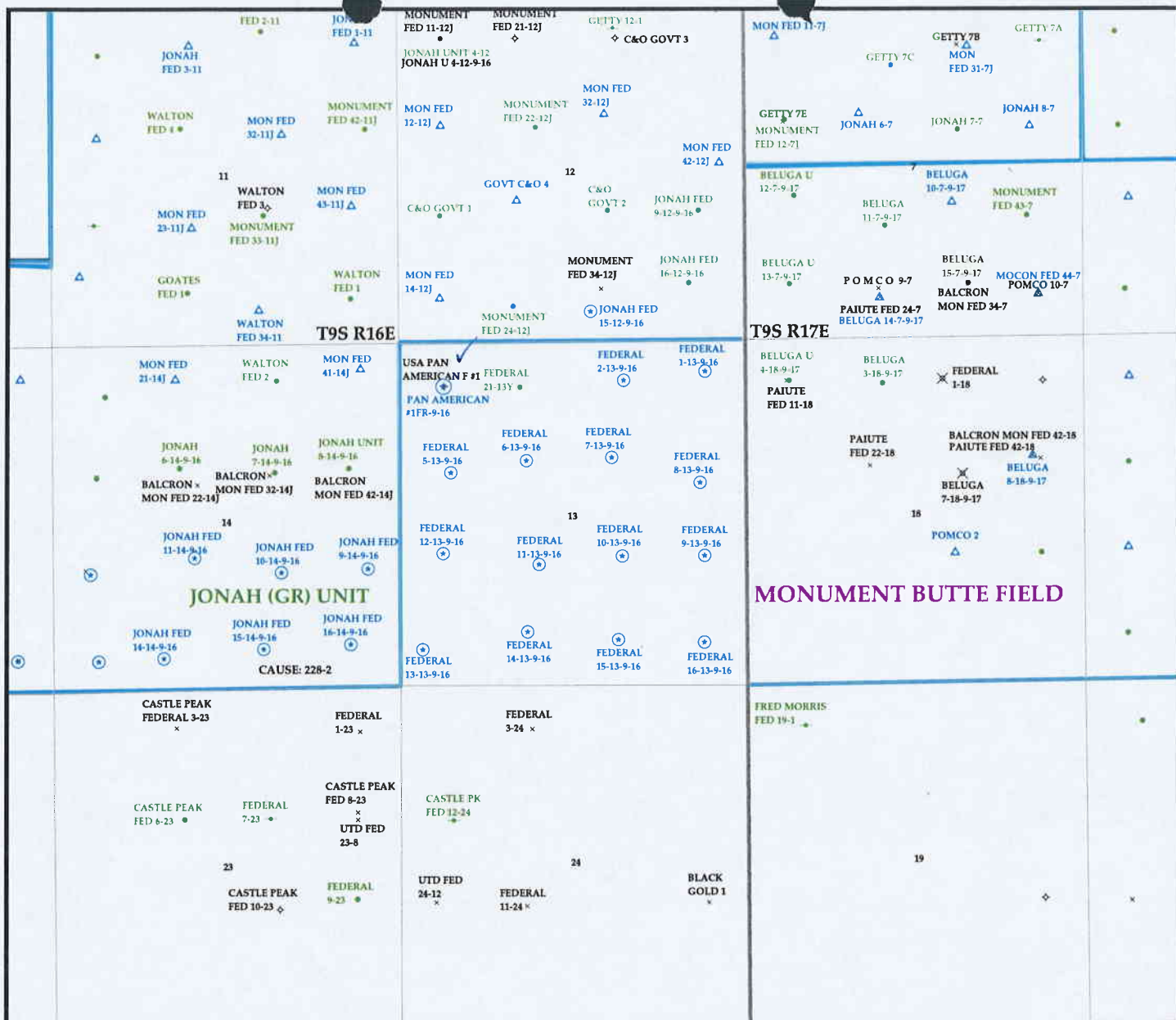
\_\_\_ R649-2-3.  
Unit \_\_\_  
☒ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
\_\_\_ R649-3-3. Exception  
\_\_\_ Drilling Unit  
Board Cause No: \_\_\_  
Eff Date: \_\_\_  
Siting: \_\_\_  
\_\_\_ R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

STIPULATIONS: \_\_\_\_\_

1- Federal Approved  
2- Spacing Waiver





OPERATOR- NEWFIELD PROD CO (N2695)

SEC. 13 T.9S R.16E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

SPACING: R649-3-2 / GENERAL SITING

#### Wells

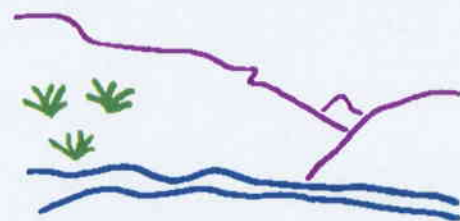
- ⊕ GAS INJECTION
- ⊙ GAS STORAGE
- × LOCATION ABANDONED
- ⊕ NEW LOCATION
- ⊕ PLUGGED & ABANDONED
- ⊕ PRODUCING GAS
- ⊕ PRODUCING OIL
- ⊕ SHUT-IN GAS
- ⊕ SHUT-IN OIL
- ⊕ TEMP. ABANDONED
- ⊕ TEST WELL
- ⊕ WATER INJECTION
- ⊕ WATER SUPPLY
- ⊕ WATER DISPOSAL

#### Units.shp

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

#### Fields.shp

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY  
DATE: 14-FEBRUARY-2005



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

MARY ANN WRIGHT  
*Acting Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

February 15, 2005

Newfield Production Company  
Rt. #3, Box 3630  
Myton, Ut 84052

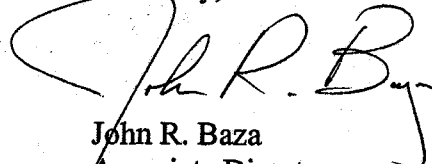
Re: Pan American #1FR-9-16 Well, 663' FNL, 663' FWL, NW NW, Sec. 13,  
T. 9 South, R. 16 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-10822.

Sincerely,

  
John R. Baza  
Associate Director

pab  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office

---

Operator: Newfield Production Company  
Well Name & Number Pan American #1FR-9-16  
API Number: 43-013-10822  
Lease: UTU-75039

Location: NW NW                      Sec. 13                      T. 9 South                      R. 16 East

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

#### 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

#### 5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

RECEIVED

FEB 10 2005

BLM VERNAL, UTAH

Form 3160-3  
(September 2001)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.

UTU-75039

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA Agreement, Name and No.

N/A

8. Lease Name and Well No.

Pan American #1FR-9-16

9. API Well No.

43.013.108.22

10. Field and Pool, or Exploratory

Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area

NW/NW Sec. 13, T9S R16E

12. County or Parish

Duchesne

13. State

UT

1a. Type of Work: ☐ DRILL☒ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Newfield Production Company

3a. Address

Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)

(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface NW/NW 663' FNL 663' FWL

At proposed prod. zone

14. Distance in miles and direction from nearest town or post office\*

Approximatley 18.2 miles south of Myton, Utah

15. Distance from proposed\*  
location to nearest  
property or lease line, ft.  
(Also to nearest drg. unit line, if any) Approx. 663' f/lse, NA f/unit

16. No. of Acres in lease

80.00

17. Spacing Unit dedicated to this well

40 Acres

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.

Approx. 4181'

19. Proposed Depth

6000'

20. BLM/BIA Bond No. on file

UTU0050 UTB000192

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5529' GL

22. Approximate date work will start\*

2nd Quarter 2005

23. Estimated duration

Approximately seven (7) days from soud to rig release.

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

Name (Printed/Typed)

Mandie Crozier

Date

2/3/05

Title

Regulatory Specialist

Approved by (Signature)

Name (Printed/Typed)

Office

Date

12/07/2005

Title

Assistant Field Manager

Mineral Resources

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

RECEIVED

DEC 16 2005

DIV. OF OIL, GAS &amp; MINING

UDOGM



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE  
170 South 500 East VERNAL, UT 84078 (435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO  
DRILL**

Company: Newfield Production Co.  
Well No: Pan American 1FR-9-16  
API No: 43-013-10822

Location: NWNW, Sec 13, T9S, R16E  
Lease No: UTU-75039  
Agreement: N/A

|  |               |                      |                    |
|--|---------------|----------------------|--------------------|
| Petroleum Engineer:                      | Matt Baker    | Office: 435-781-4490 | Cell: 435-828-4470 |
| Petroleum Engineer:                      | Michael Lee   | Office: 435-781-4432 | Cell: 435-828-7875 |
| Supervisory Petroleum Technician:        | Jamie Sparger | Office: 435-781-4502 | Cell: 435-828-3913 |
| Environmental Scientist:                 | Paul Buhler   | Office: 435-781-4475 | Cell: 435-828-4029 |
| Environmental Scientist:                 | Karl Wright   | Office: 435-781-4484 |                    |
| Natural Resource Specialist:             | Holly Villa   | Office: 435-781-4404 |                    |
| Natural Resource Specialist:             | Melissa Hawk  | Office: 435-781-4476 |                    |
| After Hours Contact Number: 435-781-4513 |               | Fax: 435-781-4410    |                    |

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations.

**NOTIFICATION REQUIREMENTS**

- |  |   |  |
|--|---|--|
| Location Construction<br>(Notify Melissa Hawk) | - | Forty-Eight (48) hours prior to construction of location and access roads.   |
| Location Completion<br>(Notify Melissa Hawk)   | - | Prior to moving on the drilling rig.   |
| Spud Notice<br>(Notify PE)                     | - | Twenty-Four (24) hours prior to spudding the well.   |
| Casing String & Cementing<br>(Notify SPT)      | - | Twenty-Four (24) hours prior to running casing and cementing all casing strings.   |
| BOP & Related Equipment Tests<br>(Notify SPT)  | - | Twenty-Four (24) hours prior to initiating pressure tests.   |
| First Production Notice<br>(Notify PE)         | - | Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days. |



***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

This well is being approved in accordance with Washington Instruction Memorandum 2005-247 and Section 390 (Category 3) of the Energy Policy Act which establishes statutory categorical exclusions (CX) under the National Environmental Policy Act (NEPA). Category 3 states that an oil or gas well can be drilled within a developed field for which an approved land use plan or any environmental document prepared pursuant to NEPA analyzed drilling as a reasonably foreseeable activity, so long as such plan or document was approved within five (5) years prior to the date of spudding the well. This well is covered under the *Final Environmental Impact Statement and Record of Decision Castle Peak and Eightmile Flat Oil and Gas Exploration Project Newfield Rocky Mountains Inc.*, signed November 21, 2005. If the well has not been spudded by November 21, 2010, a new environmental document will have to be prepared prior to the approval of the APD.

4 to 6 inches of topsoil shall be stripped from the locations and placed as shown on the cut sheet. The topsoil shall be respread over the entire location as soon as completion operations have been finished and recontouring is complete. At this point the production equipment can be set. The areas of the location not needed for production operations, including the reserve pits, shall be seeded with crested wheatgrass (variety Hycrest) at a rate of 12 lbs per acre. The 12 lb/acre rate is considering pure live seed. The interim seeding shall be done by either drilling the seed or by broadcasting the seed and dragging it with a spike tooth harrow.

The pipeline trench for the gas lines shall be dug in the borrow ditch of the road and the trench material side cast into the existing vegetation. When backfilling the trenches, care shall be taken to disturb as little of the vegetation as possible and thus allowing the existing plants to reestablish on their own, however, this area shall also be seeded with crested wheatgrass at the 12 lb/acre rate to ensure vegetation establishment and to keep invasive weeds to a minimum. All seeding of the pipelines shall be completed using a seed drill.

No pipeline construction will be allowed when soils are muddy and rutting of soils becomes apparent from the use of vehicles. If rutting occurs, operations must cease until soils are dry or frozen.

### ***DOWNHOLE CONDITIONS OF APPROVAL***

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

#### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

1. None.

#### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

1. There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well. Any changes in operation must have prior approval from the BLM, Vernal Field Office Petroleum Engineers.
2. The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
3. **Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.**
4. Blowout prevention equipment (BOPE) will remain in use until the well is completed or abandoned. Closing unit controls must remain unobstructed and readily accessible at all times. Choke manifolds must be located outside of the rig substructure.

All BOPE components will be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests must be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test must be reported in the driller's log.

BOP drills must be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

No aggressive/fresh hard-banded drill pipe shall be used within casing.

5. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and a water analysis furnished the BLM, Vernal Field Office. All oil and gas shows will be adequately tested for commercial possibilities, reported, and protected.

6. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the BLM, Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM, Vernal Field Office must be obtained and notification given before resumption of operations.
7. Chronologic drilling progress reports must be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

Any change in the program must be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) must be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, will require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.

In accordance with 43 CFR 3162.4-3, this well must be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

8. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by the BLM, Vernal Field Office.

**Please submit an electronic copy of all logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM. The cement bond log must be submitted in raster format (TIF, PDF other).**

9. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the BLM, Vernal Field Office.

All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.

10. Oil and gas meters will be calibrated in place prior to any deliveries. The Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the BLM, Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement.
11. A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM, Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
12. This APD is approved subject to the requirement that, should the well be successfully completed for production, the BLM, Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - a. Operator name, address, and telephone number.
  - b. Well name and number.
  - c. Well location ( $\frac{1}{4}$  Sec., Twn, Rng, and P.M.).
  - d. Date well was placed in a producing status (date of first production for which royalty will be paid).
  - e. The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - f. The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - g. Unit agreement and / or participating area name and number, if applicable.
  - h. Communitization agreement number, if applicable.
13. Any venting or flaring of gas will be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.

14. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events as defined in NTL3A, will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production
15. Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
16. Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

## DIVISION OF OIL, GAS AND MINING

### SPUDDING INFORMATION

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: PAN AMERICAN #1FR-9-16

Api No: 43-013-10822 Lease Type: FEDERAL

Section 13 Township 09S Range 16E County DUCHESNE

Drilling Contractor ROSS DRILLING RIG # 21

### SPUDDED:

Date 01/05/06

Time 12:00 NOON

How ROTARY

**Drilling will Commence:** \_\_\_\_\_

Reported by JUSTIN CRUM

Telephone # 1-435-823-6733

Date 01/05/2006 Signed CHD

RECEIVED

JAN 20 2006

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

DIV. OF OIL, GAS &amp; MINING

OPERATOR: NEWFIELD PRODUCTION COMPANY  
ADDRESS: RT. 3 BOX 3630  
MYTON, UT 84052

OPERATOR ACCT. NO. N2695

| ACTION CODE   | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER   | WELL NAME                   | WELL LOCATION |    |    |     |          | SPUD DATE | EFFECTIVE DATE |
|---|--------------------|----------------|--------------|-----------------------------|---------------|----|----|-----|----------|-----------|----------------|
|   |                    |                |              |                             | QQ            | SC | TP | RG  | COUNTY   |           |                |
| B   | 99999              | 12417          | 43-013-32639 | LONE TREE FEDERAL 1-20-9-17 | NENE          | 20 | 9S | 17E | DUCHESNE | 01/10/06  | 1/26/06        |
| WELL COMMENTS: <i>GRRV</i> <i>-J</i>                      |                    |                |              |                             |               |    |    |     |          |           |                |
| B   | 99999              | 11492          | 43-013-32753 | JONAH 15-15-9-18            | SWSE          | 15 | 9S | 16E | DUCHESNE | 01/07/06  | 1/26/06        |
| WELL COMMENTS: <i>GRRV</i> <i>-K</i>                      |                    |                |              |                             |               |    |    |     |          |           |                |
| B   | 99999              | 12308          | 43-013-32445 | SANDWASH FEDERAL 13-31-8-17 | SWSW          | 31 | 8S | 17E | DUCHESNE | 01/05/06  | 1/26/06        |
| WELL COMMENTS: <i>GRRV</i> <i>-J</i>                      |                    |                |              |                             |               |    |    |     |          |           |                |
| B   | 99999              | 14844          | 43-047-35972 | FEDERAL 11-33-8-18          | NESW          | 33 | 8S | 18E | UINTAH   | 01/06/06  | 1/26/06        |
| WELL COMMENTS: <i>GRRV</i> <i>Sundance Unit</i> <i>-J</i> |                    |                |              |                             |               |    |    |     |          |           |                |
| A   | 99999              | 15153          | 43-013-10822 | PAN AMERICAN 1FR-9-16       | NWNW          | 13 | 9S | 16E | DUCHESNE | 01/05/06  | 1/20/06        |
| WELL COMMENTS: <i>GRRV</i> <i>GRRV</i> <i>-K</i>          |                    |                |              |                             |               |    |    |     |          |           |                |
| B   | 99999              | 12391          | 43-013-32796 | GREATER BOUNDARY 2A-3-9-17  | NENW          | 3  | 9S | 17E | DUCHESNE | 01/07/06  | 1/26/06        |
| WELL COMMENTS: <i>GRRV</i> <i>-J</i>                      |                    |                |              |                             |               |    |    |     |          |           |                |

ACTION CODES (See instructions on back of form)

- A - Select a new entity for new well (single well only)
- B - Add a well to an existing entity (group or unit well)
- C - Reassign well from one existing entity to another existing entity
- D - Reassign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

*Kira Kettle*  
Signature

Kira Kettle

Production Clerk  
Title

January 20, 2006  
Date

01/20/2006 14:01

4356463831

INLAND

PAGE 03

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Newfield Production Company

3a. Address

Route 3 Box 3630  
Myton, UT 84052

3b. Phone No. (include are code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

663 FNL 663 FWL  
NW/NW Section 13 T9S R16E

5. Lease Serial No.

UTU75039

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

PAN AMERICAN 1FR-9-16

9. API Well No.

4301310822

10. Field and Pool, or Exploratory Area  
Monument Butte

11. County or Parish, State

Duchesne, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                               |   |   |   |
|---|--|---|---|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize             | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production(Start/Resume) | <input type="checkbox"/> Water Shut-Off         |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing        | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation              | <input type="checkbox"/> Well Integrity         |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair       | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete               | <input checked="" type="checkbox"/> Other _____ |
|   | <input type="checkbox"/> Change Plans        | <input type="checkbox"/> Plug & Abandon   | <input type="checkbox"/> Temporarily Abandon      | Spud Notice                                     |
|   | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal           |   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 1/5/06 MIRU Ross # 21. Spud well @ 12:00 PM. Drill out surface plug 9 7/8" hole with air mist for re-entry. Run in to a depth of 330' in 10 3/4" casing. Did not tag the other plug.

I hereby certify that the foregoing is true and correct

Name (Printed/ Typed)  
Justin Crum

Signature

Title

Drilling Foreman

Date

01/28/2006

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

**RECEIVED**

**FEB 01 2006**

DIV. OF OIL, GAS & MINING



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

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1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone No. (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

663 FNL 663 FWL

NW/NW Section 13 T9S R16E

5. Lease Serial No.

UTU75039

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

PAN AMERICAN IFR-9-16

9. API Well No.

4301310822

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Monument Butte

11. County or Parish, State

Duchesne, UT

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| TYPE OF SUBMISSION                                    | TYPE OF ACTION                               |   |  |   |
|---|--|---|--|---|
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| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing        | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity         |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair       | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other _____ |
|   | <input type="checkbox"/> Change Plans        | <input type="checkbox"/> Plug & Abandon   | <input type="checkbox"/> Temporarily Abandon       | Weekly Status Report _____                      |
|   | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomplate in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 1/11/06 MIRU NDSI Rig # 1. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and drill pipe to a depth of 1069'. Drill out cement plug to a depth of 1075'. Continue to pick up drill pipe to a depth of 5930'. Drill out cement plug to a depth of 6000'. Lay down 1 jt of drill pipe. Drill string stuck at 5429'. Back drill collar off at the top of # 7, 5481'. Recieve orders from Newfield to leave 6 drill collars in the hole. Rig up and run 132 jts J55 15.50# casing to a depth of 5477' KB. Then cement with 300 sks cement mixed @ 11.0 ppg & 3.43 yld. Then 500 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 0 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 80,000 #'s tension. Release rig @ 11:30 PM on 1/19/06.

I hereby certify that the foregoing is true and correct

Name (Printed/ Typed)  
Justin Crum

Signature

Title

Drilling Foreman

Date

02/01/2006

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

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Date

Office

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(Instructions on reverse)

FEB 06 2006

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

|                            |               |               |                |
|----------------------------|---------------|---------------|----------------|
|                            | <b>5 1/2"</b> | CASING SET AT | <b>5477.96</b> |
| LAST CASING                | <u>8 5/8"</u> | SET AT        | <u>309'</u>    |
| DATUM                      | <u>12' KB</u> |               |                |
| DATUM TO CUT OFF CASING    | <u>12'</u>    |               |                |
| DATUM TO BRADENHEAD FLANGE | <u></u>       |               |                |
| TD DRILLER                 | <u>5528'</u>  | LOGGER        | <u>'</u>       |
| HOLE SIZE                  | <u>7 7/8"</u> |               |                |

|                    |                                    |
|--------------------|------------------------------------|
| Flt cllr @         | 5435                               |
| OPERATOR           | <b>Newfield Production Company</b> |
| WELL               | <b>Pan American 1FR -9-16</b>      |
| FIELD/PROSPECT     | <b>Monument Butte</b>              |
| CONTRACTOR & RIG # | <b>NDSI rig #1</b>                 |

| LOG OF CASING STRING:   |        |  |                     |                             |        |       |         |            |
|---|--------|--|---------------------|-----------------------------|--------|-------|---------|------------|
| PIECES  | OD     | ITEM - MAKE - DESCRIPTION  | WT / FT             | GRD                         | THREAD | CONDT | LENGTH  |            |
|   |        | Landing Jt   |                     |                             |        |       | 14      |            |
|   |        | Short jt 4049' (6.56')   |                     |                             |        |       |         |            |
| 141   | 5 1/2" | ETC LT & C casing  | 15.5#               | J-55                        | 8rd    | A     | 5435.55 |            |
|   |        | Float collar   |                     |                             |        |       | 0.6     |            |
| 1   | 5 1/2" | ETC LT&C csg   | 15.5#               | J-55                        | 8rd    | A     | 43.16   |            |
|   |        | GUIDE shoe   |                     |                             | 8rd    | A     | 0.65    |            |
| CASING INVENTORY BAL.   |        | FEET   | JTS                 | TOTAL LENGTH OF STRING      |        |       |         | 5479.96    |
| TOTAL LENGTH OF STRING  |        | 5479.96  | 132                 | LESS CUT OFF PIECE          |        |       |         | 14         |
| LESS NON CSG. ITEMS   |        | 15.25  |                     | PLUS DATUM TO T/CUT OFF CSG |        |       |         | 12         |
| PLUS FULL JTS. LEFT OUT   |        | 590.49   | 12                  | CASING SET DEPTH            |        |       |         | 5477.96    |
| TOTAL   |        | 6055.20  | 144                 | } COMPARE                   |        |       |         |            |
| TOTAL CSG. DEL. (W/O THRDS)   |        | 6055.2   | 144                 |                             |        |       |         |            |
| TIMING  |        | 1ST STAGE  | 2nd STAGE           |                             |        |       |         |            |
| BEGIN RUN CSG.  |        | 1/19/2006  | 1:00 PM             | GOOD CIRC THRU JOB          |        |       |         | Yes        |
| CSG. IN HOLE  |        | 1/19/2006  | 3:00PM              | Bbls CMT CIRC TO SURFACE    |        |       |         | 0          |
| BEGIN CIRC  |        | 1/19/2006  | 3:05 PM             | RECIPROCATED PIPE FOR       |        |       |         | THRUSTROKE |
| BEGIN PUMP CMT  |        | 1/19/2006  | 6:21 PM             | DID BACK PRES. VALVE HOLD ? |        |       |         | Yes        |
| BEGIN DSPL. CMT   |        | 1/19/2006  | 7:30 PM             | BUMPED PLUG TO              |        |       |         | 900 PSI    |
| PLUG DOWN   |        | 1/19/2006  | 7:53 PM             |                             |        |       |         |            |
| CEMENT USED   |        | CEMENT COMPANY- B. J.  |                     |                             |        |       |         |            |
| STAGE   | # SX   | CEMENT TYPE & ADDITIVES  |                     |                             |        |       |         |            |
| 1   | 300    | Premlite II w/ 10% gel + 3 % KCL, 3#s /sk CSE + 2# sk/kolseal + 1/4#s/sk Cello Flake         |                     |                             |        |       |         |            |
|   |        | mixed @ 11.0 ppg W / 3.43 cf/sk yield  |                     |                             |        |       |         |            |
| 2   | 500    | 50/50 poz W/ 2% Gel + 3% KCL, .5%EC1,1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD |                     |                             |        |       |         |            |
| CENTRALIZER & SCRATCHER PLACEMENT   |        |  | SHOW MAKE & SPACING |                             |        |       |         |            |
| Centralizers - Middle first, top second & third. Then every third collar for a total of 20. |        |  |                     |                             |        |       |         |            |
|   |        |  |                     |                             |        |       |         |            |
|   |        |  |                     |                             |        |       |         |            |

|   |                       |
|---|-----------------------|
| COMPANY REPRESENTATIVE <u>Justin Crum</u> | DATE <u>1/20/2006</u> |
|---|-----------------------|

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an**  
**abandoned well. Use Form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

|  |   |   |
|--|---|---|
| 1. Type of Well<br><input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other |   | 5. Lease Serial No.<br>UTU75039                           |
| 2. Name of Operator<br>NEWFIELD PRODUCTION COMPANY   |   | 6. If Indian, Allottee or Tribe Name.                     |
| 3a. Address<br>Route 3 Box 3630<br>Myton, UT 84052   | 3b. Phone No. (include area code)<br>435.646.3721 | 7. If Unit or CA Agreement, Name and/or No.               |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)<br>663 FNL 663 FWL<br>NW/NW Section 13 T9S R16E           |   | 8. Well Name and No.<br>PAN AMERICAN IFR-9-16             |
|  |   | 9. API Well No.<br>4301310822                             |
|  |   | 10. Field and Pool, or Exploratory Area<br>Monument Butte |
|  |   | 11. County or Parish, State<br>Duchesne, UT               |

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

| TYPE OF SUBMISSION                                   | TYPE OF ACTION                               |   |  |   |  |
|--|--|---|--|---|--|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize             | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production(Start/Resume)  | <input type="checkbox"/> Water Shut-Off |  |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Alter Casing        | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |  |
| <input type="checkbox"/> Final Abandonment Notice    | <input type="checkbox"/> Casing Repair       | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other _____    |  |
|  | <input type="checkbox"/> Change Plans        | <input type="checkbox"/> Plug & Abandon   | <input type="checkbox"/> Temporarily Abandon       |   |  |
|  | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back        | <input checked="" type="checkbox"/> Water Disposal |   |  |

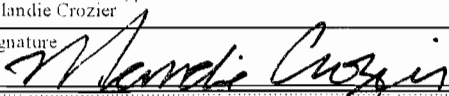
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

Accepted by the  
Utah Division of  
Oil, Gas and Mining

02/10/2006

|  |                       |
|--|-----------------------|
| I hereby certify that the foregoing is true and correct  | Title                 |
| Name (Printed/ Typed)<br>Mandie Crozier  | Regulatory Specialist |
| Signature<br> | Date<br>02/10/2006    |

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

|   |        |      |
|---|--------|------|
| Approved by   | Title  | Date |
| Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. | Office |      |

Title 18 U.S.C. Section 1001 and Title 18 U.S.C. Section 1012, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction.

Instructions on reverse

**FEB 13 2006**

02/10/2006

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

UTU75039

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

PAN AMERICAN 1FR-9-16

9. API Well No.

4301310822

10. Field and Pool, or Exploratory Area  
Monument Butte

11. County or Parish, State

Duchesne, UT

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone No. (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

663 FNL 663 FWL

NW/NW Section 13 T9S R16E

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

| TYPE OF SUBMISSION                                   | TYPE OF ACTION                               |   |   |   |  |
|--|--|---|---|---|--|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize             | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production(Start/Resume) | <input type="checkbox"/> Water Shut-Off         |  |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Alter Casing        | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation              | <input type="checkbox"/> Well Integrity         |  |
| <input type="checkbox"/> Final Abandonment Notice    | <input type="checkbox"/> Casing Repair       | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete               | <input checked="" type="checkbox"/> Other _____ |  |
|  | <input type="checkbox"/> Change Plans        | <input type="checkbox"/> Plug & Abandon   | <input type="checkbox"/> Temporarily Abandon      | Variance _____                                  |  |
|  | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal           | _____   |  |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Newfield Production Company is requesting a variance from Onshore Order 43 CFR Part 3160 Section 4 requiring production tanks to be equipped with Enardo or equivalent vent line valves. Newfield operates wells that produce from the Green River formation, which are relatively low gas producers (20 mcfpd). The majority of the wells are equipped with a three phase separator to maximize gas separation and sales.

Newfield is requesting a variance for safety reasons. Crude oil production tanks equipped with back pressure devices will emit a surge of gas when the thief hatches are open. While gauging tanks, lease operators will be subject to breathing toxic gases as well as risk a fire hazard, under optimum conditions

Accepted by  
Utah Division of  
Oil, Gas and Mining

Date:

2/14/06

By:

[Signature]

Federal Approval Of This  
Action Is Necessary

I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Mandie Crozier

Signature

[Signature]

Title

Regulatory Specialist

Date

02/10/2006

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

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Date

Office

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(Instructions on reverse)

FEB 13 2006

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

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☒ Oil Well ☐ Gas Well ☐ Other

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PAN AMERICAN IFR-9-16

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4301310822

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11. County or Parish, State

Duchesne, UT

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| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing        | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation              | <input type="checkbox"/> Well Integrity         |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair       | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete               | <input checked="" type="checkbox"/> Other _____ |
|   | <input type="checkbox"/> Change Plans        | <input type="checkbox"/> Plug & Abandon   | <input type="checkbox"/> Temporarily Abandon      | Weekly Status Report                            |
|   | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal           |   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Status report for time period 02/01/06 - 02/09/06

Subject well had completion procedures initiated in the Green River formation on 02-01-06 without the use of a service rig over the well. A cement bond log was run and a total of four Green River intervals were perforated and hydraulically fracture treated with 20/40 mesh sand. Perforated intervals are as follows: Stage #1 (5064'-5080'), (5038'-5046'); Stage #2 (4742'-4750'); Stage #3 (4300'-4314'); Stage #4 (4104'-4110'), (4094'-4098'), (4044'-4066'). All perforations, were 4 JSPF. Composite flow-through frac plugs were used between stages. Fracs were flowed back through chokes. A service rig was moved over the well on 02-07-2006. Bridge plugs were drilled out and well was cleaned to 5434'. Zones were swab tested for sand cleanup. A new 1 1/2" bore rod pump was run in well on sucker rods. Well was placed on production via rod pump on 02-09-2006.

I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Lana Nebeker

Title

Production Clerk

Signature

Date

02/21/2006

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

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Title

Date

Office

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(Instructions on reverse)

**RECEIVED**

**FEB 22 2006**

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

|                  |  |  |  |                                      |  |                                 |  |                                    |  |
|------------------|--|--|--|--------------------------------------|--|---------------------------------|--|------------------------------------|--|
| 1a. TYPE OF WORK |  | OIL WELL <input checked="" type="checkbox"/> |  | GAS WELL <input type="checkbox"/>    |  | DRY <input type="checkbox"/>    |  | Other                              |  |
| 1b. TYPE OF WELL |  | NEW WELL <input checked="" type="checkbox"/> |  | WORK OVER <input type="checkbox"/>   |  | DEEPEN <input type="checkbox"/> |  | PLUG BACK <input type="checkbox"/> |  |
|                  |  |  |  | DIFF RESVR. <input type="checkbox"/> |  |                                 |  | Other                              |  |

|                     |                              |             |              |
|---------------------|------------------------------|-------------|--------------|
| 2. NAME OF OPERATOR | Newfield Exploration Company | 9. WELL NO. | 43-013-10822 |
|---------------------|------------------------------|-------------|--------------|

|                              |   |                               |                |
|------------------------------|---|-------------------------------|----------------|
| 3. ADDRESS AND TELEPHONE NO. | 1401 17th St. Suite 1000 Denver, CO 80202 | 10. FIELD AND POOL OR WILDCAT | Monument Butte |
|------------------------------|---|-------------------------------|----------------|

|  |   |  |                    |
|--|---|--|--------------------|
| 4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)* | At Surface 663' FNL & 663' FWL (NW/NW) Sec. 13, T9S, R16E | 11. SEC., T., R., M. OR BLOCK AND SURVEY OR AREA | Sec. 13, T9S, R16E |
|--|---|--|--------------------|

At top prod. Interval reported below

|             |              |             |         |                      |          |           |    |
|-------------|--------------|-------------|---------|----------------------|----------|-----------|----|
| 14. API NO. | 43-013-10822 | DATE ISSUED | 2/15/05 | 12. COUNTY OR PARISH | Duchesne | 13. STATE | UT |
|-------------|--------------|-------------|---------|----------------------|----------|-----------|----|

|                  |        |                       |         |                                  |        |   |                   |                      |  |
|------------------|--------|-----------------------|---------|----------------------------------|--------|---|-------------------|----------------------|--|
| 15. DATE SPUNDED | 1/5/06 | 16. DATE T.D. REACHED | 1/18/06 | 17. DATE COMPL. (Ready to prod.) | 2/9/06 | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* | 5529' GL 5541' KB | 19. ELEV. CASINGHEAD |  |
|------------------|--------|-----------------------|---------|----------------------------------|--------|---|-------------------|----------------------|--|

|                           |       |                              |       |                                  |  |                          |        |              |   |             |  |
|---------------------------|-------|------------------------------|-------|----------------------------------|--|--------------------------|--------|--------------|---|-------------|--|
| 20. TOTAL DEPTH, MD & TVD | 6000' | 21. PLUG BACK T.D., MD & TVD | 5434' | 22. IF MULTIPLE COMPL. HOW MANY* |  | 23. INTERVALS DRILLED BY | -----> | ROTARY TOOLS | X | CABLE TOOLS |  |
|---------------------------|-------|------------------------------|-------|----------------------------------|--|--------------------------|--------|--------------|---|-------------|--|

|  |                         |                                 |    |
|--|-------------------------|---------------------------------|----|
| 24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)* | Green River 4044'-5080' | 25. WAS DIRECTIONAL SURVEY MADE | No |
|--|-------------------------|---------------------------------|----|

|                                      |  |                    |    |
|--------------------------------------|--|--------------------|----|
| 26. TYPE ELECTRIC AND OTHER LOGS RUN | Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log | 27. WAS WELL CORED | No |
|--------------------------------------|--|--------------------|----|

| 23. CASING RECORD (Report all strings set in well) |                 |                |           |   |               |
|--|-----------------|----------------|-----------|---|---------------|
| CASING SIZE/GRADE                                  | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | TOP OF CEMENT, CEMENTING RECORD         | AMOUNT PULLED |
| 8-5/8" - J-55                                      | 24#             | 309'           | 12-1/4"   | To surface with 230 sx Class "G" cmt    |               |
| 5-1/2" - J-55                                      | 15.5#           | 5478'          | 7-7/8"    | 300 sx Premlite II and 500 sx 50/50 Poz |               |

| 29. LINER RECORD |          |             |               |             | 30. TUBING RECORD |                |                 |
|------------------|----------|-------------|---------------|-------------|-------------------|----------------|-----------------|
| SIZE             | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE              | DEPTH SET (MD) | PACKER SET (MD) |
|                  |          |             |               |             | 2-7/8"            | EOT @ 5171'    | TA @ 5007'      |

| 31. PERFORATION RECORD (Interval, size and number) |      |            |                     | 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. |  |
|--|------|------------|---------------------|--|--|
| INTERVAL   | SIZE | SPF/NUMBER | DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED               |  |
| (A1&3) 5038'-46', 5064'-80'                        | .46" | 4/96       | 5038'-5080'         | Frac w/ 70,448# 20/40 sand in 562 bbls fluid   |  |
| (C) 4742'-4750'                                    | .43" | 4/32       | 4742'-4750'         | Frac w/ 34,710# 20/40 sand in 390 bbls fluid   |  |
| (PB10) 4300'-4314'                                 | .43" | 4/56       | 4300'-4314'         | Frac w/ 35,142# 20/40 sand in 348 bbls fluid   |  |
| (GB6) 4044'-66', 4094'-98', 4104'-10'              | .43" | 4/128      | 4044'-4066'         | Frac w/ 67,736# 20/40 sand in 511 bbls fluid   |  |

|                     |                 |                         |                       |   |             |                                    |               |
|---------------------|-----------------|-------------------------|-----------------------|---|-------------|------------------------------------|---------------|
| 33. PRODUCTION      |                 | DATE FIRST PRODUCTION   |                       | PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) |             | WELL STATUS (Producing or shut-in) |               |
|                     |                 | 2/9/06                  |                       | 2-1/2" x 1-1/2" x 14' RHAC SM Plunger Pump                            |             | PRODUCING                          |               |
| DATE OF TEST        | HOURS TESTED    | CHOKE SIZE              | PROD. FOR TEST PERIOD | OIL--BBL.   | GAS--MCF    | WATER--BBL.                        | GAS-OIL RATIO |
| 30 day ave          |                 |                         | ----->                | 65  | 17          | 67                                 | 262           |
| FLOW, TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE | OIL--BBL.             | GAS--MCF  | WATER--BBL. | OIL GRAVITY-API (CORR.)            |               |
|                     |                 | ----->                  |                       |   |             |                                    |               |

|  |                      |                   |  |
|--|----------------------|-------------------|--|
| 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) | Sold & Used for Fuel | TEST WITNESSED BY |  |
|--|----------------------|-------------------|--|

|                         |  |
|-------------------------|--|
| 35. LIST OF ATTACHMENTS |  |
|-------------------------|--|

|   |                   |                           |                       |
|---|-------------------|---------------------------|-----------------------|
| 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records |                   | DIV. OF OIL, GAS & MINING |                       |
| SIGNED  | <i>M. Crozier</i> | TITLE                     | Regulatory Specialist |
|   | Mandie Crozier    |                           | 3/16/2006             |

| 37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries); |     |        |                                     | 38. GEOLOGIC MARKERS  |             |                  |
|---|-----|--------|-------------------------------------|-----------------------|-------------|------------------|
| FORMATION   | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC.         | NAME                  | TOP         |                  |
|   |     |        |                                     |                       | MEAS. DEPTH | TRUE VERT. DEPTH |
|   |     |        | Well Name<br>Pan American #1FR-9-16 | Garden Gulch Mkr      | 3875'       |                  |
|   |     |        |                                     | Garden Gulch 1        | 4120'       |                  |
|   |     |        |                                     | Garden Gulch 2        | 4392'       |                  |
|   |     |        |                                     | Point 3 Mkr           | 4426'       |                  |
|   |     |        |                                     | X Mkr                 | 4554'       |                  |
|   |     |        |                                     | Y-Mkr                 | 4790'       |                  |
|   |     |        |                                     | Douglas Creek Mkr     | 4910'       |                  |
|   |     |        |                                     | BiCarbonate Mkr       | 5382'       |                  |
|   |     |        |                                     | B Limestone Mkr       | 5634'       |                  |
|   |     |        |                                     | Castle Peak           | 5640'       |                  |
|   |     |        |                                     | Basal Carbonate       |             |                  |
|   |     |        |                                     | Total Depth (LOGGERS) |             |                  |

|   |  |   |
|---|--|---|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING   |  | <b>FORM 9</b>   |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.  |  | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>UTU-75039 |
| <b>1. TYPE OF WELL</b><br>Oil Well  |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>                |
| <b>2. NAME OF OPERATOR:</b><br>NEWFIELD PRODUCTION COMPANY  |  | <b>7. UNIT or CA AGREEMENT NAME:</b><br>GMBU (GRRV)         |
| <b>3. ADDRESS OF OPERATOR:</b><br>Rt 3 Box 3630, Myton, UT, 84052   |  | <b>8. WELL NAME and NUMBER:</b><br>PAN AMERICAN #1FR-9-16   |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>0660 FNL 0660 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: NWNW Section: 13 Township: 09.0S Range: 16.0E Meridian: S   |  | <b>9. API NUMBER:</b><br>43013108220000                     |
| <b>PHONE NUMBER:</b><br>435 646-4825 Ext  |  | <b>9. FIELD and POOL or WILDCAT:</b><br>MONUMENT BUTTE      |
| <b>COUNTY:</b><br>DUCHESNE  |  | <b>STATE:</b><br>UTAH                                       |
| 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA   |  |   |
| <b>TYPE OF SUBMISSION</b>   | <b>TYPE OF ACTION</b>  |   |
| <input type="checkbox"/> NOTICE OF INTENT<br>Approximate date work will start:  | <input type="checkbox"/> ACIDIZE   |   |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>Date of Work Completion:<br>11/19/2013   | <input type="checkbox"/> ALTER CASING                                      |   |
| <input type="checkbox"/> SPUD REPORT<br>Date of Spud:   | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS                          |   |
| <input type="checkbox"/> DRILLING REPORT<br>Report Date:  | <input type="checkbox"/> CHANGE TUBING                                     |   |
|   | <input type="checkbox"/> CHANGE WELL STATUS                                |   |
|   | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS                    |   |
|   | <input type="checkbox"/> DEEPEN  |   |
|   | <input type="checkbox"/> FRACTURE TREAT                                    |   |
|   | <input type="checkbox"/> OPERATOR CHANGE                                   |   |
|   | <input type="checkbox"/> PLUG AND ABANDON                                  |   |
|   | <input type="checkbox"/> PRODUCTION START OR RESUME                        |   |
|   | <input type="checkbox"/> RECLAMATION OF WELL SITE                          |   |
|   | <input type="checkbox"/> REPERFORATE CURRENT FORMATION                     |   |
|   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL                          |   |
|   | <input type="checkbox"/> TUBING REPAIR                                     |   |
|   | <input type="checkbox"/> VENT OR FLARE                                     |   |
|   | <input type="checkbox"/> WATER SHUTOFF                                     |   |
|   | <input type="checkbox"/> SI TA STATUS EXTENSION                            |   |
|   | <input type="checkbox"/> WILDCAT WELL DETERMINATION                        |   |
|   | <input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/> |   |
| <b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b><br><br>As per verbal approval given by the State, Newfield installed a concentric string to isolate a casing leak at 1882-1892. It was determined a dual packer system could be used instead of a cement squeeze. |  |   |
| <b>Accepted by the<br/>         Utah Division of<br/>         Oil, Gas and Mining<br/>         FOR RECORD ONLY<br/>         November 20, 2013</b>   |  |   |
| <b>NAME (PLEASE PRINT)</b><br>Mandie Crozier  | <b>PHONE NUMBER</b><br>435 646-4825  | <b>TITLE</b><br>Regulatory Tech                             |
| <b>SIGNATURE</b><br>N/A   | <b>DATE</b><br>11/19/2013  |   |



|  |  |   |
|--|--|---|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |  | FORM 9  |
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| <b>2. NAME OF OPERATOR:</b><br>NEWFIELD PRODUCTION COMPANY   |  | <b>8. WELL NAME and NUMBER:</b><br>PAN AMERICAN #1FR-9-16   |
| <b>3. ADDRESS OF OPERATOR:</b><br>Rt 3 Box 3630, Myton, UT, 84052  |  | <b>9. API NUMBER:</b><br>43013108220000                     |
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|  |  | <b>COUNTY:</b><br>DUCHESNE                                  |
|  |  | <b>STATE:</b><br>UTAH                                       |

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION  | TYPE OF ACTION   |  |  |
|---|--|--|--|
| <input type="checkbox"/> NOTICE OF INTENT<br>Approximate date work will start:                  | <input type="checkbox"/> ACIDIZE<br><br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><br><input checked="" type="checkbox"/> CHANGE WELL STATUS<br><br><input type="checkbox"/> DEEPEN<br><br><input type="checkbox"/> OPERATOR CHANGE<br><br><input type="checkbox"/> PRODUCTION START OR RESUME<br><br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><br><input type="checkbox"/> TUBING REPAIR<br><br><input type="checkbox"/> WATER SHUTOFF<br><br><input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING<br><br><input type="checkbox"/> CHANGE TUBING<br><br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><br><input type="checkbox"/> FRACTURE TREAT<br><br><input type="checkbox"/> PLUG AND ABANDON<br><br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><br><input type="checkbox"/> VENT OR FLARE<br><br><input type="checkbox"/> SI TA STATUS EXTENSION<br><br><input checked="" type="checkbox"/> OTHER | <input type="checkbox"/> CASING REPAIR<br><br><input type="checkbox"/> CHANGE WELL NAME<br><br><input checked="" type="checkbox"/> CONVERT WELL TYPE<br><br><input type="checkbox"/> NEW CONSTRUCTION<br><br><input type="checkbox"/> PLUG BACK<br><br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><br><input type="checkbox"/> TEMPORARY ABANDON<br><br><input type="checkbox"/> WATER DISPOSAL<br><br><input type="checkbox"/> APD EXTENSION<br><br>OTHER: <input type="text" value="Anguard"/> |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>Date of Work Completion:<br>11/15/2013 |  |  |  |
| <input type="checkbox"/> SPUD REPORT<br>Date of Spud:   |  |  |  |
| <input type="checkbox"/> DRILLING REPORT<br>Report Date:  |  |  |  |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well has been converted from a producing oil well to an injection well on 11/15/2013. 10/28/2013 30 bbls Anguard and 30 bbls packer fluid pumped down csg. On 11/15/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 11/15/2013 the casing was pressured up to 1415 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 225 psig during the test. There was not a State representative available to witness the test.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

Date: December 30, 2013

By: 

|   |                                     |   |
|---|-------------------------------------|---|
| <b>NAME (PLEASE PRINT)</b><br>Lucy Chavez-Naupoto | <b>PHONE NUMBER</b><br>435 646-4874 | <b>TITLE</b><br>Water Services Technician |
| <b>SIGNATURE</b><br>N/A                           |                                     | <b>DATE</b><br>11/25/2013                 |

# Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company  
Rt. 3 Box 3630  
Myton, UT 84052  
435-646-3721

Witness: \_\_\_\_\_ Date 11/15/13 Time 10:15 am pm  
Test Conducted by: EVERETT LINCOLN  
Others Present: \_\_\_\_\_

Well: PAN AMERICAN 1-FR-9-14 Field: MONUMENT BUTTE  
Well Location: NW1/4 Sec 13 T9S R10E API No: 43-013-10822  
Duchesne County, UT

| <u>Time</u> | <u>Casing Pressure</u> |      |
|-------------|------------------------|------|
| 0 min       | <u>1415</u>            | psig |
| 5           | <u>1414</u>            | psig |
| 10          | <u>1414</u>            | psig |
| 15          | <u>1415</u>            | psig |
| 20          | <u>1415</u>            | psig |
| 25          | <u>1415</u>            | psig |
| 30 min      | <u>1415</u>            | psig |
| 35          | _____                  | psig |
| 40          | _____                  | psig |
| 45          | _____                  | psig |
| 50          | _____                  | psig |
| 55          | _____                  | psig |
| 60 min      | _____                  | psig |

Tubing pressure: 225 psig

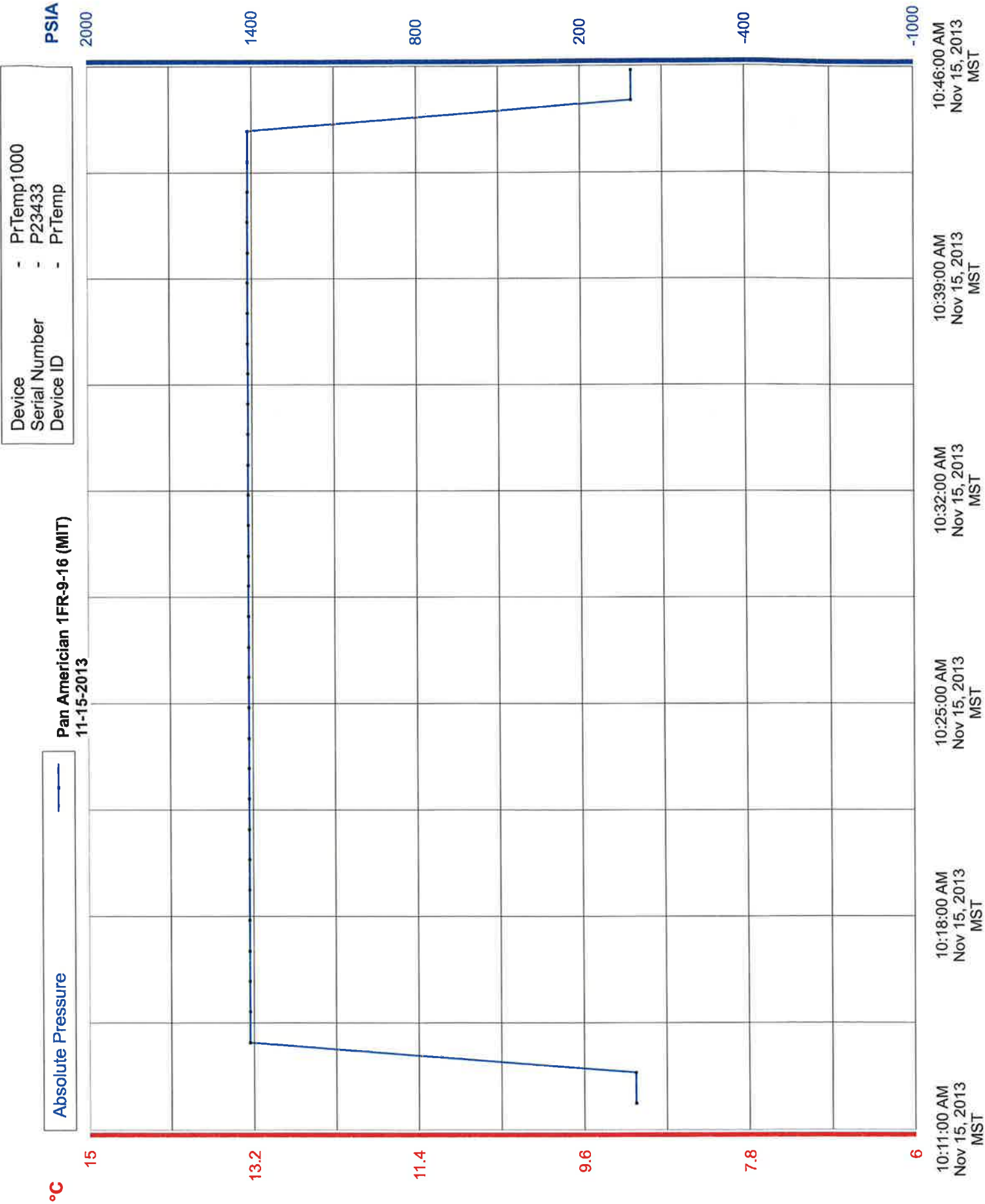
Result:

Pass

Fail

Signature of Witness: \_\_\_\_\_

Signature of Person Conducting Test: Everett Lincoln



## Daily Activity Report

Format For Sundry

**PAN AMERICAN 1FR-9-16**

**9/1/2013 To 1/30/2014**

**10/18/2013 Day: 1**

**Conversion**

WES #2 on 10/18/2013 - MIRUSU - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 8:00PM TRAVEL TO LOCATION 8:00AM TO 10:30AM WAITED ON EXCAVATION OF LOCATION 10:30AM TO 1:30PM RU RIG FLUSHED CSG W/ 60 BBLS@250DEG, LD PR, LD PONY RODS, 2-RODS, PU PR FLUSHED TBG W/ 40 BBLS @250DEG, 1:30PM TO 2:00PM PU 3 RODS, PONY RODS SOFT SEATED PUMP, PT TBG TO 3K PSI GOOD TEST 2:00PM TO 5:00PM LD ROD STRING ON TRAILER 5:00PM TO 6:00PM ND WH, RELEASED TAC, NU BOPS, RD RIG FLOOR, SIWFN 6:00PM TO 7:30PM CREW TRAVEL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 8:00PM TRAVEL TO LOCATION 8:00AM TO 10:30AM WAITED ON EXCAVATION OF LOCATION 10:30AM TO 1:30PM RU RIG FLUSHED CSG W/ 60 BBLS@250DEG, LD PR, LD PONY RODS, 2-RODS, PU PR FLUSHED TBG W/ 40 BBLS @250DEG, 1:30PM TO 2:00PM PU 3 RODS, PONY RODS SOFT SEATED PUMP, PT TBG TO 3K PSI GOOD TEST 2:00PM TO 5:00PM LD ROD STRING ON TRAILER 5:00PM TO 6:00PM ND WH, RELEASED TAC, NU BOPS, RD RIG FLOOR, SIWFN 6:00PM TO 7:30PM CREW TRAVEL **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$10,655

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**10/21/2013 Day: 2**

**Conversion**

WES #2 on 10/21/2013 - TooH re-doping every connection. - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 4:00PM TOO H 125 JTS TBG BREAKING AND RE-DOPING EVERY CONNECTION W/ LIQUID O-RING GREEN DOPE 4:00PM 5:30PM CREW TRAVEL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 4:00PM TOO H 125 JTS TBG BREAKING AND RE-DOPING EVERY CONNECTION W/ LIQUID O-RING GREEN DOPE 4:00PM 5:30PM CREW TRAVEL

**Daily Cost:** \$0

**Cumulative Cost:** \$17,975

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**10/22/2013 Day: 3**

**Conversion**

WES #2 on 10/22/2013 - Set pkr, test csg. No test. - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 9:00AM TIH 125 JTS TBG 9:00AM TO 11:00AM PUMPED 10 BBLS DOWN TBG DROPPED SV CHASED W/ 25 BBLS, SHUT DOWN FOR 1 HR DUE TO HOT OILER, PT TBG TO 3K PSI HELD FOR 30 MIN GOOD TEST 11:00AM TO 12:00PM RIH W/ SL RETRIEVED SV 12:00PM TO 2:00PM RU RIG FLOOR, ND BOPS, NU INJECTION WH, CIRCULATED 50 BBLS OF PKR FLUID 2:00PM TO 5:00PM SET PKR LOADED CSG W/ PKR FLUID PT CSG TO 1400 PSI HELD 100% FOR 30 MIN COULD NOT GET TO TEST LEFT 1400 PSI FOR OVER NIGHT 5:00PM TO 6:30PM CREW TRAVEL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 9:00AM TIH 125 JTS TBG 9:00AM TO 11:00AM PUMPED 10 BBLS DOWN TBG DROPPED SV CHASED W/ 25 BBLS, SHUT DOWN FOR 1 HR DUE TO HOT OILER, PT TBG TO 3K PSI HELD FOR 30 MIN GOOD TEST 11:00AM TO 12:00PM RIH W/ SL RETRIEVED SV 12:00PM TO 2:00PM RU RIG FLOOR, ND BOPS, NU INJECTION WH, CIRCULATED 50 BBLS OF PKR FLUID 2:00PM TO 5:00PM SET PKR LOADED CSG W/ PKR FLUID PT CSG TO 1400 PSI HELD 100% FOR 30 MIN COULD NOT GET TO TEST LEFT 1400 PSI FOR OVER NIGHT 5:00PM TO 6:30PM CREW TRAVEL **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$32,486

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**10/23/2013 Day: 4**

**Conversion**

WES #2 on 10/23/2013 - Release pkr, TIH pkr injection assembly. - 5:30AM TO 7:00AM  
CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 11:00AM TOO H 125 JTS  
TBG PKR KEPT HANGING UP 11:00AM TO 1:00PM TIH B/S, 125 JTS TBG 1:00PM TO 3:00PM  
TOOH 125 JTS TBG, B/S 3:00PM TO 6:00PM TIH INJECTION PKR ASSEMBLY 105 JTS TBG  
SIWFN - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM  
TO 11:00AM TOO H 125 JTS TBG PKR KEPT HANGING UP 11:00AM TO 1:00PM TIH B/S, 125  
JTS TBG 1:00PM TO 3:00PM TOO H 125 JTS TBG, B/S 3:00PM TO 6:00PM TIH INJECTION PKR  
ASSEMBLY 105 JTS TBG SIWFN

**Daily Cost:** \$0

**Cumulative Cost:** \$40,346

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**10/24/2013 Day: 5**

**Conversion**

WES #2 on 10/24/2013 - Test casing, no test. Set up to run tandem tools in the morning. -  
5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO  
8:00AM TIH 20 JTS TBG 8:00AM TO 10:00AM PUMPED 10 BBLS DOWN TBG DROPPED SV  
CHASED W/ 25 BBLS PT TBG TO 3K PSI HAD TO BUMP UP 4 TIMES GOOD TEST 10:00AM TO  
11:00AM RIH W/ SL RETRIEVED SV 11:00AM TO 1:00PM PT CSG TO 1400 PSI TRIED TO  
HOLD FOR 30 MIN 100% LOST PRESSURE 100PSI PER 5MIN 1:00PM TO 3:00PM TOO H 125  
JTS TBG, INJECTION PKR ASSEMBLY, GOT READY TO RUN TANDOM TOOLS, SIWFN - 5:30AM  
TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 8:00AM TIH  
20 JTS TBG 8:00AM TO 10:00AM PUMPED 10 BBLS DOWN TBG DROPPED SV CHASED W/ 25  
BBLS PT TBG TO 3K PSI HAD TO BUMP UP 4 TIMES GOOD TEST 10:00AM TO 11:00AM RIH W/  
SL RETRIEVED SV 11:00AM TO 1:00PM PT CSG TO 1400 PSI TRIED TO HOLD FOR 30 MIN  
100% LOST PRESSURE 100PSI PER 5MIN 1:00PM TO 3:00PM TOO H 125 JTS TBG, INJECTION  
PKR ASSEMBLY, GOT READY TO RUN TANDOM TOOLS, SIWFN **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$47,301

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**10/25/2013 Day: 6**

**Conversion**

WES #2 on 10/25/2013 - Chased hole in tubing between 1882'-1892'. - 5:30AM TO 7:00AM  
CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 10:00AM PU RBP,RH,2  
3/8"X4' PUP SUB, SWEDGE,PKR, TIH 125 JTS TBG 10:00AM TO 12:00PM SET RBP W/ CE@  
3990' TOO H 2 JTS TBG SET PKR PT TOOLS TO 1400 PSI GOOD TEST TOO H 60 JTS TBG SET  
PKR @2004' PT 1400PSI GOOD TEST 12:00PM TO 6:30PM CHASED HOLE TO BETWEEN 1882-  
1892' W/ BLEED OF RATE @150PSI EVERY 10 MIN SIWFN - 5:30AM TO 7:00AM CREW TRAVEL  
7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 10:00AM PU RBP,RH,2 3/8"X4' PUP  
SUB, SWEDGE,PKR, TIH 125 JTS TBG 10:00AM TO 12:00PM SET RBP W/ CE@ 3990' TOO H 2  
JTS TBG SET PKR PT TOOLS TO 1400 PSI GOOD TEST TOO H 60 JTS TBG SET PKR @2004' PT  
1400PSI GOOD TEST 12:00PM TO 6:30PM CHASED HOLE TO BETWEEN 1882-1892' W/ BLEED  
OF RATE @150PSI EVERY 10 MIN SIWFN

**Daily Cost:** \$0

**Cumulative Cost:** \$55,139

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**10/28/2013 Day: 7**

**Conversion**

WES #2 on 10/28/2013 - TIH w/inj pkr - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO

7:15AM JSA SAFETY MEETING WAITED ON DECISION ON HOW TO APPROACH HOLE IN CSG  
TIH RETRIEVED RBP TOO H TIH W/ INJECTION PKR ASSEMBLY 125 JTS TBG, PUMPED 10 BBLS  
ON TBG DROPPED SV CHASED W/ 25 BBLS RU RIG FLOOR, ND BOPS, NU INJECTION WH,  
SIWFN - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING  
WAITED ON DECISION ON HOW TO APPROACH HOLE IN CSG TIH RETRIEVED RBP TOO H TIH  
W/ INJECTION PKR ASSEMBLY 125 JTS TBG, PUMPED 10 BBLS ON TBG DROPPED SV CHASED  
W/ 25 BBLS RU RIG FLOOR, ND BOPS, NU INJECTION WH, SIWFN **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$62,430

**10/29/2013 Day: 8**

**Conversion**

WES #2 on 10/29/2013 - Pumped down Ann Guard, set Pkr. - 5:30AM TO 7:00AM CREW  
TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 8:00AM BLEW DOWN WELL  
WAITED ON HALLIBURTON 8:00AM 12:00PM RIGGED UP HALLIBURTON, MIXED 50 BBLS OF  
PKR FLUID PUMPED DOWN CSG, FLUSHED PUMP LINES, MIXED 30 BBLS OF ANN. GUARD,  
PUMPED DOWN CSG DISPLACED W/ 14.56 BBLS PLACED OVER HOLE FROM 1882'-1892'  
12:00PM TO 1:00PM SET PKR W/ 15K TENSION IN LANDED WH, PRESSURED CSG UP TO  
1800 PSI HELD FOR 3 HRSBLED DOWN TO 900 PSI 1:00PMM TO 4:00PM HELD PRESSURE ON  
CSG TELL 4:00PM BLED WELL CSG DOWN TO 0PSI SIWFN 4:00PM TO 5:30PM CREW TRAVEL  
- 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO  
8:00AM BLEW DOWN WELL WAITED ON HALLIBURTON 8:00AM 12:00PM RIGGED UP  
HALLIBURTON, MIXED 50 BBLS OF PKR FLUID PUMPED DOWN CSG, FLUSHED PUMP LINES,  
MIXED 30 BBLS OF ANN. GUARD, PUMPED DOWN CSG DISPLACED W/ 14.56 BBLS PLACED  
OVER HOLE FROM 1882'-1892' 12:00PM TO 1:00PM SET PKR W/ 15K TENSION IN LANDED  
WH, PRESSURED CSG UP TO 1800 PSI HELD FOR 3 HRSBLED DOWN TO 900 PSI 1:00PMM TO  
4:00PM HELD PRESSURE ON CSG TELL 4:00PM BLED WELL CSG DOWN TO 0PSI SIWFN  
4:00PM TO 5:30PM CREW TRAVEL

**Daily Cost:** \$0

**Cumulative Cost:** \$67,845

**10/30/2013 Day: 9**

**Conversion**

WES #2 on 10/30/2013 - Pressure test csg, no test. Circulate out Ann Guard. - 5:30AM TO  
7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING 7:15AM TO 3:00PM PT CSG  
TO 1400PSI COUD NOT GET TO TEST BLED OFF @ 50PSI PER 30 MIN KEPT BUMPING  
PRESSURE UP TO 1400 PSI 3:00PM TO 4:00PM ND INJECTION WH RELEASED PKR NU BOPS  
RD RIG FLOOR 4:00PM TO 7:00PM PUMPED 20 BBLS DOWN TBG CAUGHT CIRCULATION  
PUMPED 120 BBLS TO CIRCULATE OUT ANN. GUARD SIWFN 7:00PM TO 8:30PM CREW  
TRAVEL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 7:15AM JSA SAFETY MEETING  
7:15AM TO 3:00PM PT CSG TO 1400PSI COUD NOT GET TO TEST BLED OFF @ 50PSI PER 30  
MIN KEPT BUMPING PRESSURE UP TO 1400 PSI 3:00PM TO 4:00PM ND INJECTION WH  
RELEASED PKR NU BOPS RD RIG FLOOR 4:00PM TO 7:00PM PUMPED 20 BBLS DOWN TBG  
CAUGHT CIRCULATION PUMPED 120 BBLS TO CIRCULATE OUT ANN. GUARD SIWFN 7:00PM  
TO 8:30PM CREW TRAVEL

**Daily Cost:** \$0

**Cumulative Cost:** \$76,872

**10/31/2013 Day: 10**

**Conversion**

WES #2 on 10/31/2013 - Lay down tubing, nipple up wellhead. - 5:30AM TO 7:00AM CREW  
TRAVEL 7:00AM TO 12:00PM NEWFIELD SAFTEY MEETING IN VERNAL 12:00PM TO 5:30PM LD  
125 JTS TBG ON TRAILER, RU RIG FLOOR, ND BOPS, NU WH BONNET, RD RIG MOSL 5:30PM

TO 7:00PM CREW TRAVEL - 5:30AM TO 7:00AM CREW TRAVEL 7:00AM TO 12:00PM  
NEWFIELD SAFTEY MEETING IN VERNAL 12:00PM TO 5:30PM LD 125 JTS TBG ON TRAILER,  
RU RIG FLOOR, ND BOPS, NU WH BONNET, RD RIG MOSL 5:30PM TO 7:00PM CREW TRAVEL  
**Finalized**  
**Daily Cost:** \$0  
**Cumulative Cost:** \$97,094

**11/11/2013 Day: 11**

**Conversion**

NC #1 on 11/11/2013 - MURUSU, NU BOP - 5:30-6:00AM C/Travl, SICP 375psi SITP 375psi, OWU, POOH w/ 40-jts, MU Re-entry guide, AS1-X PKR, SN, 59- jts (1877'), BMW H/Oiler pmped 10BW pad, Drp S/V, 10BW to seat, PT Tbg to 3100psi, Observe pressure, 100psi loss in 30min, 50psi loss in 15min, Repressured to 3100psi, No Pressure loss in 30min, GOOD TEST!!, Retrived S/V, MU & RIH w/ PBR,1- 6' perf sub, SN, 5-jts (163'), 6K HRP PKR, 60- jts (1911'), RD workflow, ND BOP, PU 6' sub, XO WH to 3k w/ hanger seat, MU Tbg hanger, RU H/Oiler to Csg pmped 60BW w/ pkr fluids, RU Tbg to circ d/ flowline, Set AS1-X PKR w/ CE @ 3985.52', BO & LD hanger, NU 3K injection tree (Just for over night shut in), SWIFN...5:30PM to 6:00PM c/travl - 5:30-6:00AM C/Travl, SICP 375psi SITP 375psi, OWU, POOH w/ 40-jts, MU Re-entry guide, AS1-X PKR, SN, 59- jts (1877'), BMW H/Oiler pmped 10BW pad, Drp S/V, 10BW to seat, PT Tbg to 3100psi, Observe pressure, 100psi loss in 30min, 50psi loss in 15min, Repressured to 3100psi, No Pressure loss in 30min, GOOD TEST!!, Retrived S/V, MU & RIH w/ PBR,1- 6' perf sub, SN, 5-jts (163'), 6K HRP PKR, 60- jts (1911'), RD workflow, ND BOP, PU 6' sub, XO WH to 3k w/ hanger seat, MU Tbg hanger, RU H/Oiler to Csg pmped 60BW w/ pkr fluids, RU Tbg to circ d/ flowline, Set AS1-X PKR w/ CE @ 3985.52', BO & LD hanger, NU 3K injection tree (Just for over night shut in), SWIFN...5:30PM to 6:00PM c/travl - 5:30-6:00AM C/Travl, SICP 375psi SITP 375psi, OWU, POOH w/ 40-jts, MU Re-entry guide, AS1-X PKR, SN, 59- jts (1877'), BMW H/Oiler pmped 10BW pad, Drp S/V, 10BW to seat, PT Tbg to 3100psi, Observe pressure, 100psi loss in 30min, 50psi loss in 15min, Repressured to 3100psi, No Pressure loss in 30min, GOOD TEST!!, Retrived S/V, MU & RIH w/ PBR,1- 6' perf sub, SN, 5-jts (163'), 6K HRP PKR, 60- jts (1911'), RD workflow, ND BOP, PU 6' sub, XO WH to 3k w/ hanger seat, MU Tbg hanger, RU H/Oiler to Csg pmped 60BW w/ pkr fluids, RU Tbg to circ d/ flowline, Set AS1-X PKR w/ CE @ 3985.52', BO & LD hanger, NU 3K injection tree (Just for over night shut in), SWIFN...5:30PM to 6:00PM c/travl - 5:30-6:00AM C/Travl, SICP 375psi SITP 375psi, OWU, POOH w/ 40-jts, MU Re-entry guide, AS1-X PKR, SN, 59- jts (1877'), BMW H/Oiler pmped 10BW pad, Drp S/V, 10BW to seat, PT Tbg to 3100psi, Observe pressure, 100psi loss in 30min, 50psi loss in 15min, Repressured to 3100psi, No Pressure loss in 30min, GOOD TEST!!, Retrived S/V, MU & RIH w/ PBR,1- 6' perf sub, SN, 5-jts (163'), 6K HRP PKR, 60- jts (1911'), RD workflow, ND BOP, PU 6' sub, XO WH to 3k w/ hanger seat, MU Tbg hanger, RU H/Oiler to Csg pmped 60BW w/ pkr fluids, RU Tbg to circ d/ flowline, Set AS1-X PKR w/ CE @ 3985.52', BO & LD hanger, NU 3K injection tree (Just for over night shut in), SWIFN...5:30PM to 6:00PM c/travl - 5:30-6:00AM C/Travl, SICP 70psi, Blow Down, OWU, Start P/U Tbg, RIH W/ SN, & NC, On Bottom, R/U BMW Hot Oiler To Flush Tbg W/ 30 Bbls, Drop S/V, R/U S/Line to seat S/V, POOH w/ S/Line, R/U Hot Oiler To Tbg,17BW to fill, P/Tst Tbg To 3000 Psi, Good Tst, Retrieve S/V, TOO H & RD S/L, POOH w/ 124 - jts (3924') breaking collars & applying liquid 0-ring, TIH w/ 40-jts, SWIFN... 5:30PM to 6:00PM c/tral - 5:30-6:00AM C/Travl, SICP 70psi, Blow Down, OWU, Start P/U Tbg, RIH W/ SN, & NC, On Bottom, R/U BMW Hot Oiler To Flush Tbg W/ 30 Bbls, Drop S/V, R/U S/Line to seat S/V, POOH w/ S/Line, R/U Hot Oiler To Tbg,17BW to fill, P/Tst Tbg To 3000 Psi, Good Tst, Retrieve S/V, TOO H & RD S/L, POOH w/ 124 - jts (3924') breaking collars & applying liquid 0-ring, TIH w/ 40-jts, SWIFN... 5:30PM to 6:00PM c/tral - - - 5:30-6:00AM C/Travl, SICP 70psi, Blow Down, OWU, Start P/U Tbg, RIH W/ SN, & NC,



On Bottom, R/U BMW Hot Oiler To Flush Tbg W/ 30 Bbls, Drop S/V, R/U S/Line to seat S/V, POOH w/ S/Line, R/U Hot Oiler To Tbg, 17BW to fill, P/Tst Tbg To 3000 Psi, Good Tst, Retrieve S/V, TOOH & RD S/L, POOH w/ 124 - jts (3924') breaking collars & applying liquid O-ring, TIH w/ 40-jts, SWIFN... 5:30PM to 6:00PM c/trl - 5:30-6:00AM C/Travl, SICP 70psi, Blow Down, OWU, Start P/U Tbg, RIH W/ SN, & NC, On Bottom, R/U BMW Hot Oiler To Flush Tbg W/ 30 Bbls, Drop S/V, R/U S/Line to seat S/V, POOH w/ S/Line, R/U Hot Oiler To Tbg, 17BW to fill, P/Tst Tbg To 3000 Psi, Good Tst, Retrieve S/V, TOOH & RD S/L, POOH w/ 124 - jts (3924') breaking collars & applying liquid O-ring, TIH w/ 40-jts, SWIFN... 5:30PM to 6:00PM c/trl - 5:30-6:00AM C/Travl, SICP 70psi, Blow Down, OWU, Start P/U Tbg, RIH W/ SN, & NC, On Bottom, R/U BMW Hot Oiler To Flush Tbg W/ 30 Bbls, Drop S/V, R/U S/Line to seat S/V, POOH w/ S/Line, R/U Hot Oiler To Tbg, 17BW to fill, P/Tst Tbg To 3000 Psi, Good Tst, Retrieve S/V, TOOH & RD S/L, POOH w/ 124 - jts (3924') breaking collars & applying liquid O-ring, TIH w/ 40-jts, SWIFN... 5:30PM to 6:00PM c/trl - 5:30-6:00AM C/Travl, SICP 375psi SITP 375psi, OWU, POOH w/ 40-jts, MU Re-entry guide, AS1-X PKR, SN, 59- jts (1877'), BMW H/Oiler pmped 10BW pad, Drp S/V, 10BW to seat, PT Tbg to 3100psi, Observe pressure, 100psi loss in 30min, 50psi loss in 15min, Repressured to 3100psi, No Pressure loss in 30min, GOOD TEST!!!, Retrived S/V, MU & RIH w/ PBR, 1- 6' perf sub, SN, 5-jts (163'), 6K HRP PKR, 60- jts (1911'), RD workfloor, ND BOP, PU 6' sub, XO WH to 3k w/ hanger seat, MU Tbg hanger, RU H/Oiler to Csg pmped 60BW w/ pkr fluids, RU Tbg to circ d/ flowline, Set AS1-X PKR w/ CE @ 3985.52', BO & LD hanger, NU 3K injection tree (Just for over night shut in), SWIFN... 5:30PM to 6:00PM c/trl - 5:30-6:00AM C/Travl, SICP 375psi SITP 375psi, OWU, POOH w/ 40-jts, MU Re-entry guide, AS1-X PKR, SN, 59- jts (1877'), BMW H/Oiler pmped 10BW pad, Drp S/V, 10BW to seat, PT Tbg to 3100psi, Observe pressure, 100psi loss in 30min, 50psi loss in 15min, Repressured to 3100psi, No Pressure loss in 30min, GOOD TEST!!!, Retrived S/V, MU & RIH w/ PBR, 1- 6' perf sub, SN, 5-jts (163'), 6K HRP PKR, 60- jts (1911'), RD workfloor, ND BOP, PU 6' sub, XO WH to 3k w/ hanger seat, MU Tbg hanger, RU H/Oiler to Csg pmped 60BW w/ pkr fluids, RU Tbg to circ d/ flowline, Set AS1-X PKR w/ CE @ 3985.52', BO & LD hanger, NU 3K injection tree (Just for over night shut in), SWIFN... 5:30PM to 6:00PM c/trl

**Daily Cost:** \$0**Cumulative Cost:** \$99,267

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**11/14/2013 Day: 14****Conversion**

NC #1 on 11/14/2013 - PT upper half of Tbg, Set HRP PKR - 5:30-6:00AM C/Travl: SITP 0psi SIP on 1.900" 180psi, Bleed down pressure, OWU, BMW H/Oiler Pressured up Tbg above PBR to 1050psi 7BW to fill, 50psi loss in 30min, Bleed off, ND BOP, XO 3K injection tree bottom flange to fit 1.900" hanger, RU H/Oiler to upper tbg, 0BW to fill, PT to 1550psi for 60min, NO PRESSURE LOSS, GOOD TEST, RDMOSU @ 1:00PM, FINAL RIG REPORT!!! READY FOR MIT!! - 5:30-6:00AM C/Travl: SITP 0psi SIP on 1.900" 180psi, Bleed down pressure, OWU, BMW H/Oiler Pressured up Tbg above PBR to 1050psi 7BW to fill, 50psi loss in 30min, Bleed off, ND BOP, XO 3K injection tree bottom flange to fit 1.900" hanger, RU H/Oiler to upper tbg, 0BW to fill, PT to 1550psi for 60min, NO PRESSURE LOSS, GOOD TEST, RDMOSU @ 1:00PM, FINAL RIG REPORT!!! READY FOR MIT!! - 5:30-6:00AM C/Travl: SITP 0psi SIP on 1.900" 180psi, Bleed down pressure, OWU, BMW H/Oiler Pressured up Tbg above PBR to 1050psi 7BW to fill, 50psi loss in 30min, Bleed off, ND BOP, XO 3K injection tree bottom flange to fit 1.900" hanger, RU H/Oiler to upper tbg, 0BW to fill, PT to 1550psi for 60min, NO PRESSURE LOSS, GOOD TEST, RDMOSU @ 1:00PM, FINAL RIG REPORT!!! READY FOR MIT!! - 5:30-6:00AM C/Travl: SICP 0psi SITP 0psi, BMW H/Oiler pmped 25BW d/ Tbg to control gas, Recieved WH (XO WH bolts cut to wrong length), MU 1.900" WH, XO for 1.900", Shut down for company BBQ, MU & RIH w/ 1.900" stinger, PU 63- jts of 1.9, Stung into PBR @ 2105', SWIFN..5:30PM to 6:00PM c/trl - 5:30-6:00AM C/Travl: SICP 0psi SITP 0psi, BMW H/Oiler pmped 25BW d/ Tbg to control gas, Recieved WH (XO WH bolts cut to wrong length), MU 1.900" WH, XO for 1.900", Shut down for company BBQ, MU & RIH w/ 1.900" stinger, PU 63- jts of 1.9, Stung into PBR @ 2105', SWIFN..5:30PM to 6:00PM c/trl - 5:30-6:00AM C/Travl: SICP 0psi SITP 0psi, BMW H/Oiler pmped 25BW d/ Tbg to control gas, Recieved WH (XO WH bolts cut to

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**Daily Cost:** \$0**Cumulative Cost:** \$124,693**11/19/2013 Day: 17****Conversion**

Rigless on 11/19/2013 - Conduct initial MIT - On 11/15/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 11/15/2013 the casing was pressured up to 1415 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 225 psig during the test. There was not a State representative available to witness the test. - On 11/15/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 11/15/2013 the casing was pressured up to 1415 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 225 psig during the test. There was not a State representative available to witness the test. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$224,218

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**Pertinent Files: Go to File List**

Spud Date: 1/5/06

Put on Production: 2/9/06

GL: 5529' KB: 5541'

## Pan American 1FR-9-16

SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

DEPTH LANDED: 309'

HOLE SIZE: 15"

CEMENT DATA: 230 sxs cement.

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 132 jts. (5479.96')

DEPTH LANDED: 5477.96' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sxs Prem. Lite II mixed &amp; 500 sxs 50/50 POZ.

CEMENT TOP AT: 1290'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

TBG HANGER 2-7/8" (0.9)

NO. OF JOINTS: 60 jts (1910.6')

HPR PACKER 5-1/2 x 2-7/8 CE @ 1926'

NO. OF JOINTS: 5 jt (162.7)

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 2092.4' KB

PERFORATED PUP 2-7/8" J-55 AT: 2093.5'

PBR SUB 2-7/8" AT: 2099.7'

NO. OF JOINTS: 59 jts (1845.2')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 3949.7' KB

ARROW #1 PACKER CE AT: 3954'

RE ENTRY GUIDE AT: 3957.7'

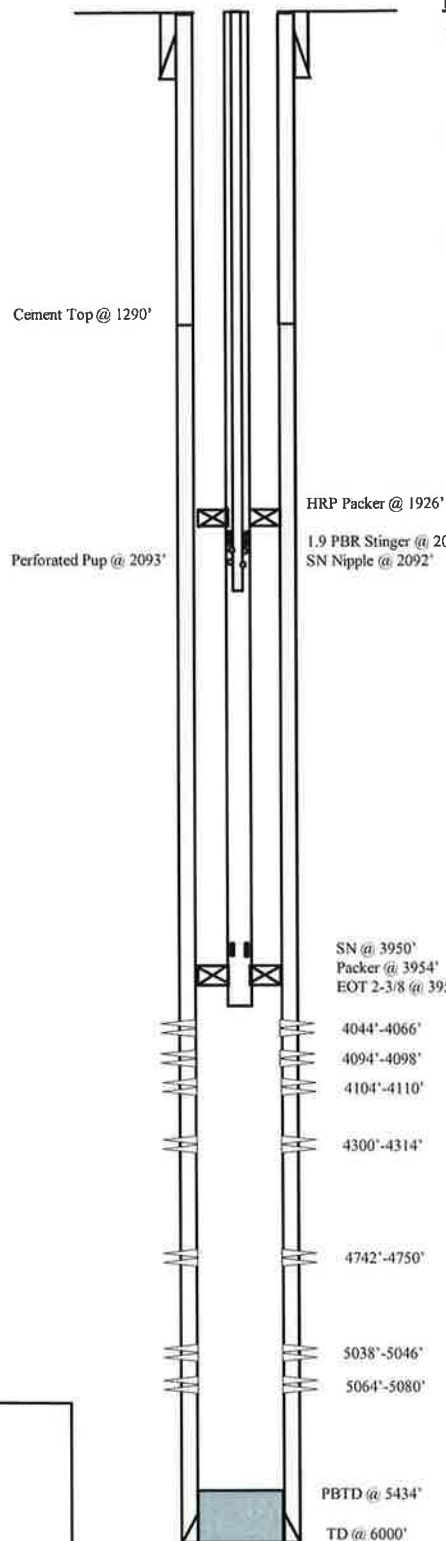
TOTAL STRING LENGTH: EOT @ 3958.19'

INNER STRING

Tbg Hanger &amp; XO 1.9" tbg

NO. OF JOINTS: 62 jt (2056')

PBR STINGER AT: 2067'

Injection Wellbore  
DiagramFRAC JOB

2/6/06 5038'-5080'

**Frac A1&3 sands as follows:**

70,448# 20/40 sand in 562 bbls Lightning 17 frac fluid. Treated @ avg press of 1933 psi w/avg rate of 24.9 BPM. ISIP 2050 psi. Calc flush: 5036 gal. Actual flush: 5040 gal.

2/6/06 4742'-4750'

**Frac C sands as follows:**

34,710# 20/40 sand in 390 bbls Lightning 17 frac fluid. Treated @ avg press of 1978 psi w/avg rate of 24.8 BPM. ISIP 1980 psi. Calc flush: 4740 gal. Actual flush: 4746 gal.

2/6/06 4300'-4314'

**Frac PB10 sands as follows:**

35,142# 20/40 sand in 348 bbls Lightning 17 frac fluid. Treated @ avg press of 1820 psi w/avg rate of 24.8 BPM. ISIP 2060 psi. Calc flush: 4298 gal. Actual flush: 4326 gal.

2/6/06 4044'-4110'

**Frac GB6 sands as follows:**

67,736# 20/40 sand in 511 bbls Lightning 17 frac fluid. Treated @ avg press of 1805 w/ avg rate of 24.9 BPM. ISIP 1820 psi. Calc flush: 4042 gal. Actual flush: 3906 gal.

12/13/06

10/28/13 **Anguard****Pump Change:** Rod & Tubing detail updated.

Rigged up Halliburton, Mixed 50 BBLS of PKR Fluid pumped down CSG, Flushed Pump Lines, Mixed 30 BBLS of Anguard, Pumped Down CSG Displaced W/ 14.56 BBLS Placed Over Hole from 1882'-1892'

11/15/13

**Conversion MIT Finalized** – update tbg detailPERFORATION RECORD

|        |             |        |          |
|--------|-------------|--------|----------|
| 2/1/06 | 5064'-5080' | 4 JSPF | 64 holes |
| 2/1/06 | 5038'-5046' | 4 JSPF | 32 holes |
| 2/6/06 | 4742'-4750' | 4 JSPF | 32 holes |
| 2/6/06 | 4300'-4314' | 4 JSPF | 56 holes |
| 2/6/06 | 4104'-4110' | 4 JSPF | 24 holes |
| 2/6/06 | 4094'-4098' | 4 JSPF | 16 holes |
| 2/6/06 | 4044'-4066' | 4 JSPF | 88 holes |

**NEWFIELD****Pan American 1FR-9-16**

663' FNL &amp; 663' FWL

NW/NW Section 13-T9S-R16E

Duchesne Co, Utah

API #43-013-10822; Lease #UTU-75039

**NEWFIELD**



**Newfield Exploration Company**

1001 17th Street | Suite 2000

Denver, Colorado 80202

PH 303-893-0102 | FAX 303-893-0103

**RECEIVED**

**MAY 09 2013**

DIV. OF OIL, GAS & MINING

May 8, 2013

Mr. Mark Reinbold  
State of Utah  
Division of Oil, Gas and Mining  
1594 W North Temple  
Salt Lake City, Utah 84114-5801

RE: Permit Application for Water Injection Well  
Pan American #1FR-9-16  
Monument Butte Field, Lease #UTU-75039  
Section 13-Township 9S-Range 16E  
Duchesne County, Utah

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Pan American #1FR-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

Eric Sundberg  
Environmental Manager

**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**PAN AMERICAN #1FR-9-16**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #UTU-75039**  
**MAY 8, 2013**

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| ATTACHMENT E-18                             | WELLBORE DIAGRAM – BALCRON MONUMENT FEDERAL #24-12J-9-16 |
| ATTACHMENT F                                | WATER ANALYSIS   |
| ATTACHMENT G                                | FRACTURE GRADIENT CALCULATIONS                           |
| ATTACHMENT G-1                              | FRACTURE REPORTS DATED – 2/2/06 -2/10/06                 |
| ATTACHMENT H                                | WORK PROCEDURE FOR PROPOSED PLUG AND ABANDON             |
| ATTACHMENT H-1                              | WELLBORE DIAGRAM OF PROPOSED PLUGGED WELL                |



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Newfield Production Company  
ADDRESS 1001 17th Street, Suite 2000  
Denver, Colorado 80202

Well Name and number: Pan American #1FR-9-16  
Field or Unit name: Monument Butte (Green River) Lease No. UTU-75039  
Well Location: QQ NWNW section 13 township 9S range 16E county Duchesne

Is this application for expansion of an existing project? . . . . . Yes ☒ No ☐

Will the proposed well be used for:                      Enhanced Recovery? . . . . . Yes ☒ No ☐  
   Disposal? . . . . . Yes ☐ No ☒  
   Storage? . . . . . Yes ☐ No ☒

Is this application for a new well to be drilled? . . . . . Yes ☐ No ☒

If this application is for an existing well,  
has a casing test been performed on the well? . . . . . Yes ☐ No ☒

Date of test: \_\_\_\_\_

API number: 43-013-10822


Proposed injection interval:                      from 3874 to 5434  
Proposed maximum injection:                      rate 500 bpd pressure 1794 psig  
Proposed injection zone contains [x] oil, [ ] gas, and/or [ ] fresh water within 1/2  
mile of the well.

**IMPORTANT:** Additional information as required by R615-5-2 should  
accompany this form.

List of Attachments: Attachments "A" through "H-1"

I certify that this report is true and complete to the best of my knowledge.

Name: Eric Sundberg  
Title Environmental Manager  
Phone No. (303) 893-0102

Signature   
Date 5/8/13

(State use only)

Application approved by \_\_\_\_\_ Title \_\_\_\_\_

Approval Date \_\_\_\_\_

Comments:

# Pan American #1FR-9-16

Spud Date: 1/5/06  
Put on Production: 2/9/06

GL: 5529' KB: 5541'

## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
DEPTH LANDED: 309'  
HOLE SIZE: 12 1/4"  
CEMENT DATA: 230 sxs cement.

## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 132 jts. (5479.96')  
DEPTH LANDED: 5477.96' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 500 sxs 50/50 POZ.  
CEMENT TOP AT: 1290'

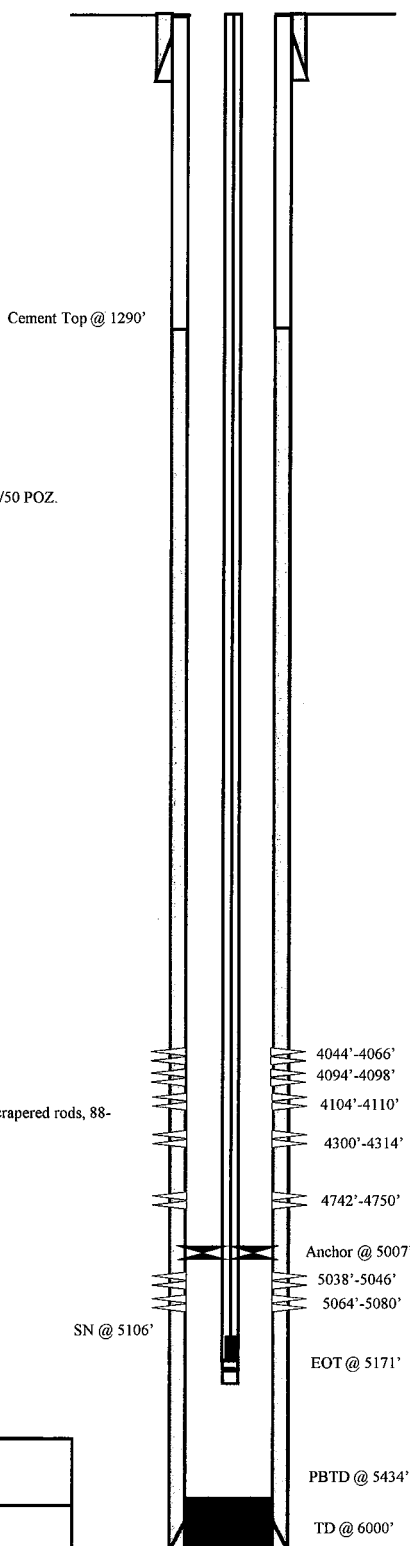
## TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 157 jts (4995.27')  
TUBING ANCHOR: 5007.27' KB  
NO. OF JOINTS: 3 jts (96.02')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5106.09' KB  
NO. OF JOINTS: 2 jts (62.92')  
TOTAL STRING LENGTH: EOT @ 5170.56' KB

## SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished rod  
SUCKER RODS: 1-8", 1-6", 1-4", 1-2" x 3/4" ponies, 99- 3/4" scraped rods, 88- 3/4" plain rods, 10- 3/4" scraped rods, 6- 1 1/2" weight rods  
PUMP SIZE: 2-1/2" x 1-1/2" x 14' RHAC w/SM plunger  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 5 SPM

## Wellbore Diagram



Initial Production: BOPD,  
MCFD, BWPD

## FRAC JOB

|          |             |  |
|----------|-------------|--|
| 2/6/06   | 5038'-5080' | <b>Frac A1&amp;3 sands as follows:</b><br>70,448# 20/40 sand in 562 bbls Lightning 17 frac fluid. Treated @ avg press of 1933 psi w/avg rate of 24.9 BPM. ISIP 2050 psi. Calc flush: 5036 gal. Actual flush: 5040 gal. |
| 2/6/06   | 4742'-4750' | <b>Frac C sands as follows:</b><br>34,710# 20/40 sand in 390 bbls Lightning 17 frac fluid. Treated @ avg press of 1978 psi w/avg rate of 24.8 BPM. ISIP 1980 psi. Calc flush: 4740 gal. Actual flush: 4746 gal.        |
| 2/6/06   | 4300'-4314' | <b>Frac PB10 sands as follows:</b><br>35,142# 20/40 sand in 348 bbls Lightning 17 frac fluid. Treated @ avg press of 1820 psi w/avg rate of 24.8 BPM. ISIP 2060 psi. Calc flush: 4298 gal. Actual flush: 4326 gal.     |
| 2/6/06   | 4044'-4110' | <b>Frac GB6 sands as follows:</b><br>67,736# 20/40 sand in 511 bbls Lightning 17 frac fluid. Treated @ avg press of 1805 w/ avg rate of 24.9 BPM. ISIP 1820 psi. Calc flush: 4042 gal. Actual flush: 3906 gal.         |
| 12/13/06 |             | <b>Pump Change:</b> Rod & Tubing detail updated.   |

## PERFORATION RECORD

|        |             |        |          |
|--------|-------------|--------|----------|
| 2/1/06 | 5064'-5080' | 4 JSPF | 64 holes |
| 2/1/06 | 5038'-5046' | 4 JSPF | 32 holes |
| 2/6/06 | 4742'-4750' | 4 JSPF | 32 holes |
| 2/6/06 | 4300'-4314' | 4 JSPF | 56 holes |
| 2/6/06 | 4104'-4110' | 4 JSPF | 24 holes |
| 2/6/06 | 4094'-4098' | 4 JSPF | 16 holes |
| 2/6/06 | 4044'-4066' | 4 JSPF | 88 holes |

**NEWFIELD**

**Pan American #1FR-9-16**

663' FNL & 663' FWL

NW/NW Section 13-T9S-R16E

Duchesne Co, Utah

API #43-013-10822; Lease #UTU-75039

TW 01-19-07

## **WORK PROCEDURE FOR INJECTION CONVERSION**

1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
3. Test casing and packer.
4. Rig down and move out.

**REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS  
RULE R615-5-1**

- 1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**
- 2. A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**

**2.1 The name and address of the operator of the project.**

Newfield Production Company  
1001 17<sup>th</sup> Street, Suite 2000  
Denver, Colorado 80202

**2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.**

See Attachment A.

**2.3 A full description of the particular operation for approval is requested.**

Approval is requested to convert the Pan American #1FR-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.

**2.4 A description of the pools from which the identified wells are producing or have produced.**

The proposed injection well will inject into the Green River Formation.

**2.5 The names, description and depth of the pool or pools to be affected.**

The injection zone is in the Green River Formation. For the Pan American #1FR-9-16 well, the proposed injection zone is from Garden Gulch to Basal Carbonate (3874' - 5434'). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD, which ever is shallower. The Garden Gulch Marker top is at 3552' and the TD is at 6000'.

**2.6 A copy of a log of a representative well completed in the pool.**

The referenced log for the Pan American #1FR-9-16 is on file with the Utah Division of Oil, Gas and Mining.

- 2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

- 2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.**

See Attachment B.

- 2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.**

See Attachment C.

- 2.10 Any additional information the Board may determine is necessary to adequately review the petition.**

Newfield Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

- 4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.**

This proposed injection well is on a Federal lease (Lease #UTU-75039) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.

**REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL,  
STORAGE AND ENHANCED RECOVERY WELLS  
SECTION V – RULE R615-5-2**

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**

- 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

See Attachments A and B.

- 2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

All logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

- 2.4 Copies of logs already on file with the Division should be referenced, but need not be refiled.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24# surface casing run to 309' KB, and 5-1/2", 15.5# casing run from surface to 5478' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

- 2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

- 2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F.

**The proposed average and maximum injection pressures.**

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1794 psig.

- 2.8 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.**

The minimum fracture gradient for the Pan American #1FR-9-16, for existing perforations (4044' - 5080') calculates at 0.88 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1794 psig. We may add additional perforations between 3552' and 6000'. See Attachments G and G-1.

- 2.9 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.**

In the Pan American #1FR-9-16, the proposed injection zone (3874' - 5434') is in the Garden Gulch to the Basal Carbonate of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

- 2.10 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.**

See Attachments E through E-18.

Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

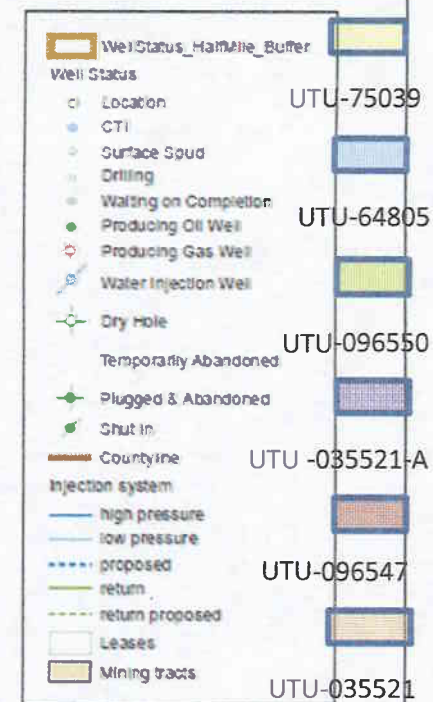
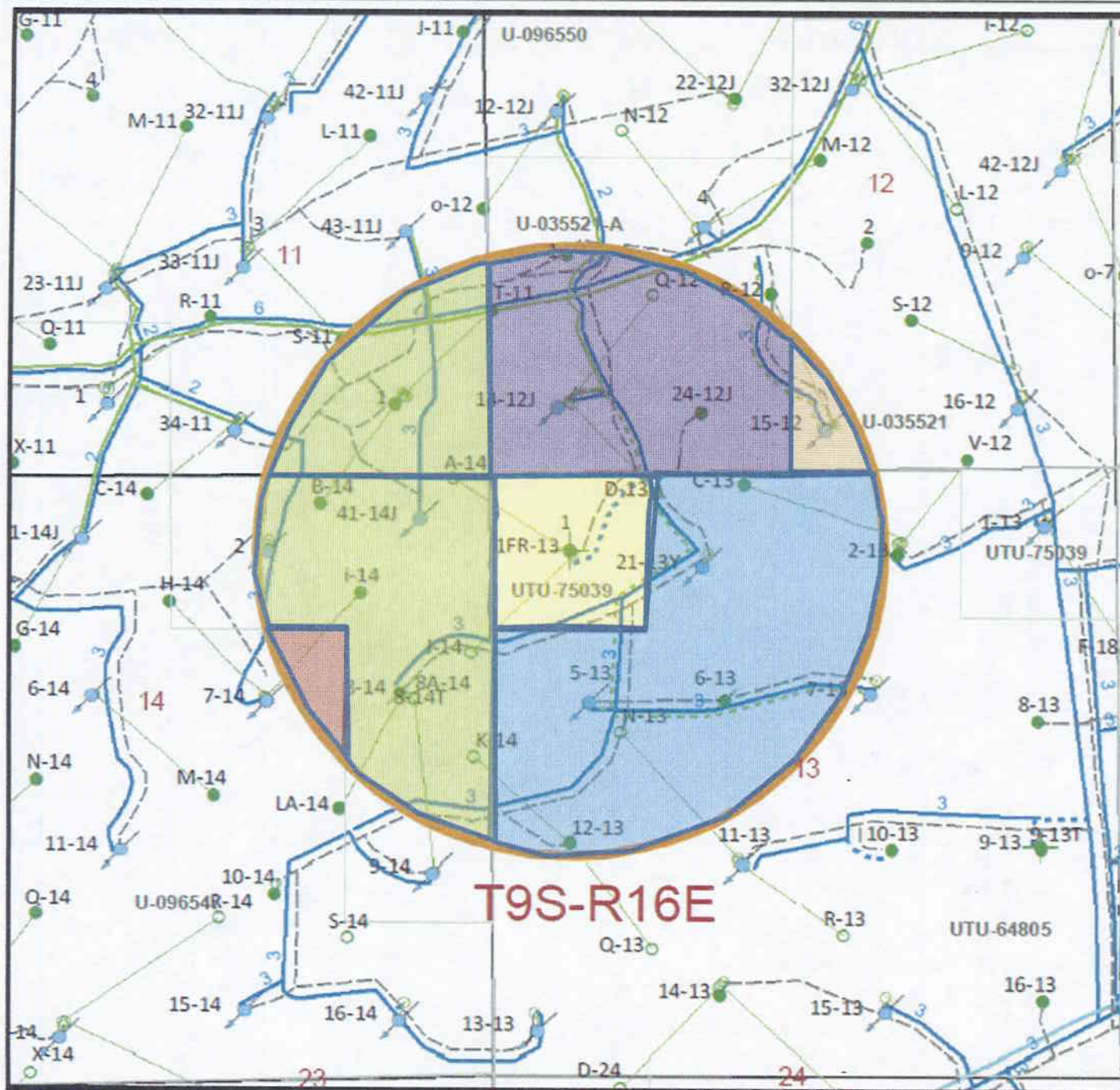
- 2.11 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.**

See Attachment C.

- 2.12 Any other information that the Board or Division may determine is necessary to adequately review the application.**

Newfield Production Company will supply any requested information to the Board or Division.





## ATTACHMENT A

Pan American Fed 1FR-13  
Section 13, T9S-R16E

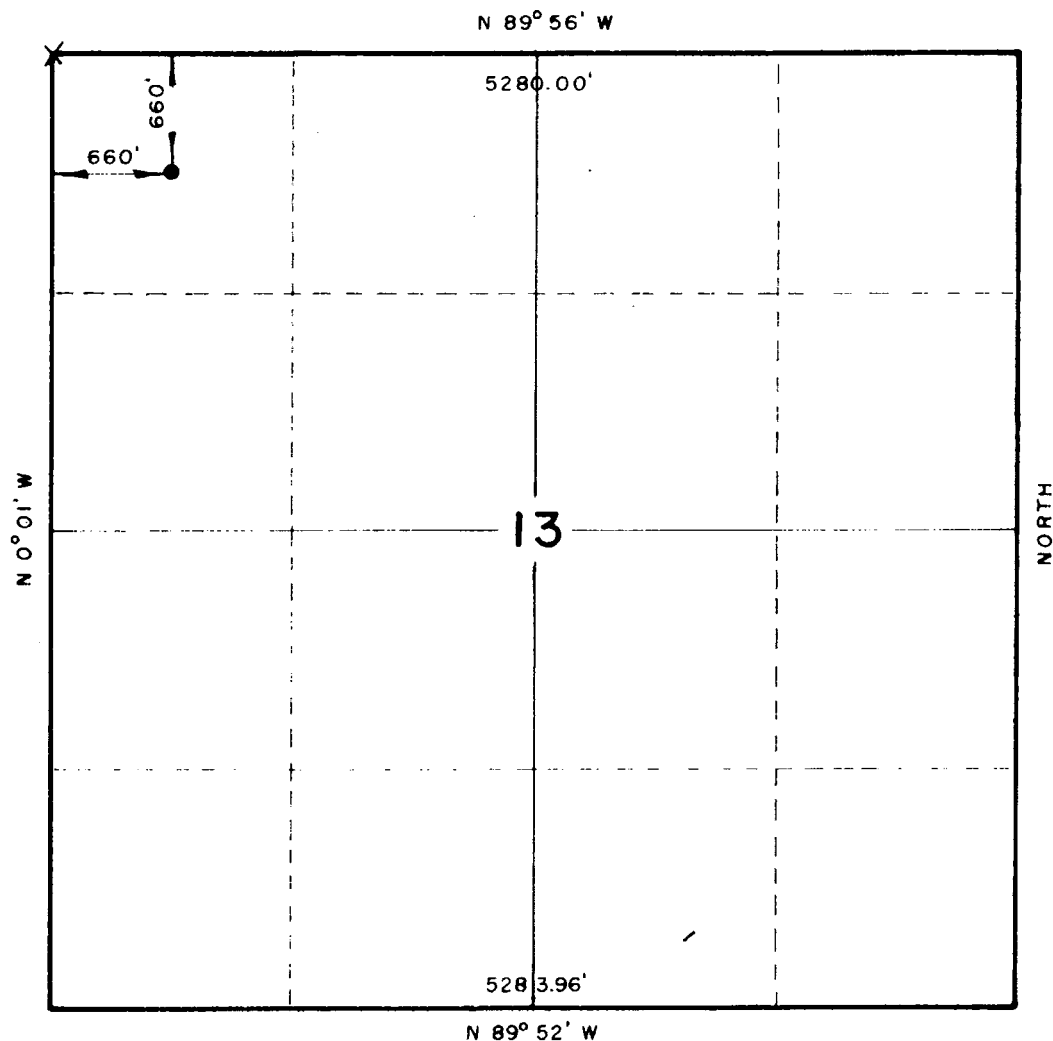
**NEWFIELD**  
ROCKY MOUNTAINS  
1 in. = 1,250 feet

**1/2 Mile Radius Map**  
Duchesne & Uintah Counties

1001 17th Street Suite 2000  
Denver, Colorado 80202  
Phone: (303) 833-0100

March 27, 2013

## T9S, R16E, SLB &amp; M



X = Corners Located (Brass Caps)

Scale: 1" = 1000'

By: ROSS CONSTRUCTION CO.  
Vernal, Utah

PARTY N. J. Marshall  
R. Stewart

## SURVEY

PAN AMERICAN PETROLEUM CORP. U.S.A. PAN  
AMFB #1 WELL LOCATION, LOCATED AS  
SHOWN IN THE NW1/4 NW1/4 OF SECTION 13,  
T9S, R16E, SLB & M, DUCHESNE CO., UTAH

DATE May 23, 1964  
REFERENCES GLO Plat  
Approved Sept. 23, 1911

FILE Pan Am

WEATHER Clear - Warm

**EXHIBIT B**

| # | Legal Description   | Lessor & Expiration        | Lessee & Operating Rights   | Surface Owner |
|---|---|----------------------------|---|---------------|
| 1 | T9S-R16E SLM<br>Section 13: NENE, NWNW  | USA<br>UTU-75039<br>HBP    | Newfield Production Company<br>Newfield RMI LLC<br>ABO Petro Corp<br>MYCO Industries Inc<br>OXY Y-1 Company<br>Yates Petroleum Corp   | USA           |
| 2 | T9S-R16E SLM<br>Section 13: NWNE, NENW, S2N2, S2  | USA<br>UTU-64805<br>HBP    | Newfield Production Company<br>Newfield RMI LLC<br>ABO Petro Corp<br>MYCO Industries Inc<br>OXY Y-1 Company<br>Yates Petroleum Corp   | USA           |
| 3 | T9S-16E SLM<br>Section 11: E2, NW, NESW<br>Section 12: NW<br>Section 14: N2NE, SENE, NESE | USA<br>UTU-096550<br>HBP   | Newfield Production Company<br>Newfield RMI LLC<br>ABO Petro Corp<br>MYCO Industries Inc<br>OXY Y-1 Company<br>Yates Petroleum Corp   | USA           |
| 4 | T9S-R16E SLM<br>Section 12: SW  | USA<br>UTU-035521-A<br>HBP | Newfield Production Company<br>Newfield RMI LLC<br>ABO Petro Corp<br>Carl B Field<br>Montana & Wyoming Oil Company<br>MYCO Industries Inc<br>OXY Y-1 Company<br>Vaughey & Vaughey<br>Bonnie B Warne<br>John R Warne | USA           |

Yates Petroleum Corp

|   |  |                           |  |     |
|---|--|---------------------------|--|-----|
| 5 | T9S-R16E SLM<br>Section 11: W2SW, SESW<br>Section 14: SWNE, W2, W2SE, SESE | USA<br>UTU-096547<br>HBP  | Newfield Production Company<br>Newfield RMI LLC<br>ABO Petro Corp<br>MYCO Industries Inc<br>OXY Y-1 Company<br>Yates Petroleum Corp  | USA |
| 6 | T9S-R16E SLM<br>Section 12: S2NE, SE                                       | USA<br>UTU -035521<br>HBP | Newfield Production Company<br>Newfield RMI LLC<br>ABO Petroleum Corp<br>Carl B Field<br>Montana & Wyoming Oil CO<br>MYCO Industries Inc<br>OXY Y-1 Company<br>Vaughey & Vaughey<br>Bonnie B Warne<br>John R Warne<br>Yates Petroleum Corp |     |


ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Pan American #1FR-9-16

I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed: \_\_\_\_\_

  
Newfield Production Company  
Eric Sundberg  
Environmental Manager

Sworn to and subscribed before me this 8<sup>th</sup> day of May, 2013.

Notary Public in and for the State of Colorado: \_\_\_\_\_



My Commission Expires: 12/31/15

LYDIA BIONDO  
Notary Public  
State of Colorado

## Pan American #1FR-9-16

Spud Date: 1/5/06  
Put on Production: 2/9/06  
GL: 5529' KB: 5541'

**SURFACE CASING**

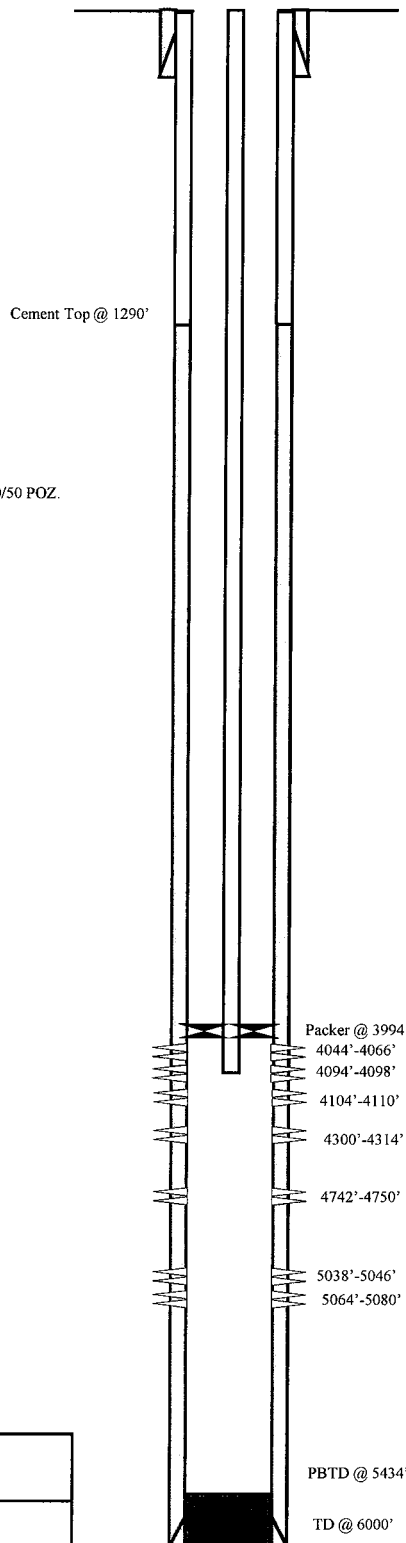
CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
DEPTH LANDED: 309'  
HOLE SIZE: 12 1/4"  
CEMENT DATA: 230 sxs cement.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 132 jts. (5479.96')  
DEPTH LANDED: 5477.96' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 500 sxs 50/50 POZ.  
CEMENT TOP AT: 1290'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 157 jts (4995.27')  
TUBING ANCHOR: 5007.27' KB  
NO. OF JOINTS: 3 jts (96.02')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5106.09' KB  
NO. OF JOINTS: 2 jts (62.92')  
TOTAL STRING LENGTH: EOT @ 5170.56' KB

Proposed Injection  
Wellbore Diagram

Initial Production: BOPD,  
MCFD, BWPD

**FRAC JOB**

|          |             |  |
|----------|-------------|--|
| 2/6/06   | 5038'-5080' | <b>Frac A1&amp;3 sands as follows:</b><br>70,448# 20/40 sand in 562 bbls Lightning 17 frac fluid. Treated @ avg press of 1933 psi w/avg rate of 24.9 BPM. ISIP 2050 psi. Calc flush: 5036 gal. Actual flush: 5040 gal. |
| 2/6/06   | 4742'-4750' | <b>Frac C sands as follows:</b><br>34,710# 20/40 sand in 390 bbls Lightning 17 frac fluid. Treated @ avg press of 1978 psi w/avg rate of 24.8 BPM. ISIP 1980 psi. Calc flush: 4740 gal. Actual flush: 4746 gal.        |
| 2/6/06   | 4300'-4314' | <b>Frac PB10 sands as follows:</b><br>35,142# 20/40 sand in 348 bbls Lightning 17 frac fluid. Treated @ avg press of 1820 psi w/avg rate of 24.8 BPM. ISIP 2060 psi. Calc flush: 4298 gal. Actual flush: 4326 gal.     |
| 2/6/06   | 4044'-4110' | <b>Frac GB6 sands as follows:</b><br>67,736# 20/40 sand in 511 bbls Lightning 17 frac fluid. Treated @ avg press of 1805 w/ avg rate of 24.9 BPM. ISIP 1820 psi. Calc flush: 4042 gal. Actual flush: 3906 gal.         |
| 12/13/06 |             | <b>Pump Change:</b> Rod & Tubing detail updated.   |

**PERFORATION RECORD**

|        |             |        |          |
|--------|-------------|--------|----------|
| 2/1/06 | 5064'-5080' | 4 JSPF | 64 holes |
| 2/1/06 | 5038'-5046' | 4 JSPF | 32 holes |
| 2/6/06 | 4742'-4750' | 4 JSPF | 32 holes |
| 2/6/06 | 4300'-4314' | 4 JSPF | 56 holes |
| 2/6/06 | 4104'-4110' | 4 JSPF | 24 holes |
| 2/6/06 | 4094'-4098' | 4 JSPF | 16 holes |
| 2/6/06 | 4044'-4066' | 4 JSPF | 88 holes |

**NEWFIELD****Pan American #1FR-9-16**

663' FNL &amp; 663' FWL

NW/NW Section 13-T9S-R16E

Duchesne Co, Utah

API #43-013-10822; Lease #UTU-75039

JL 3/6/2013

Spud Date:09/22/05  
Put on Production: 11/08/05  
GL: 5538' KB: 5550'

Federal 5-13-9-16

Injection Wellbore  
Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (301.7')  
DEPTH LANDED: 312.6' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 135 jts. (5802.05')  
DEPTH LANDED: 5801.3' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
CEMENT TOP: 100'

TUBING

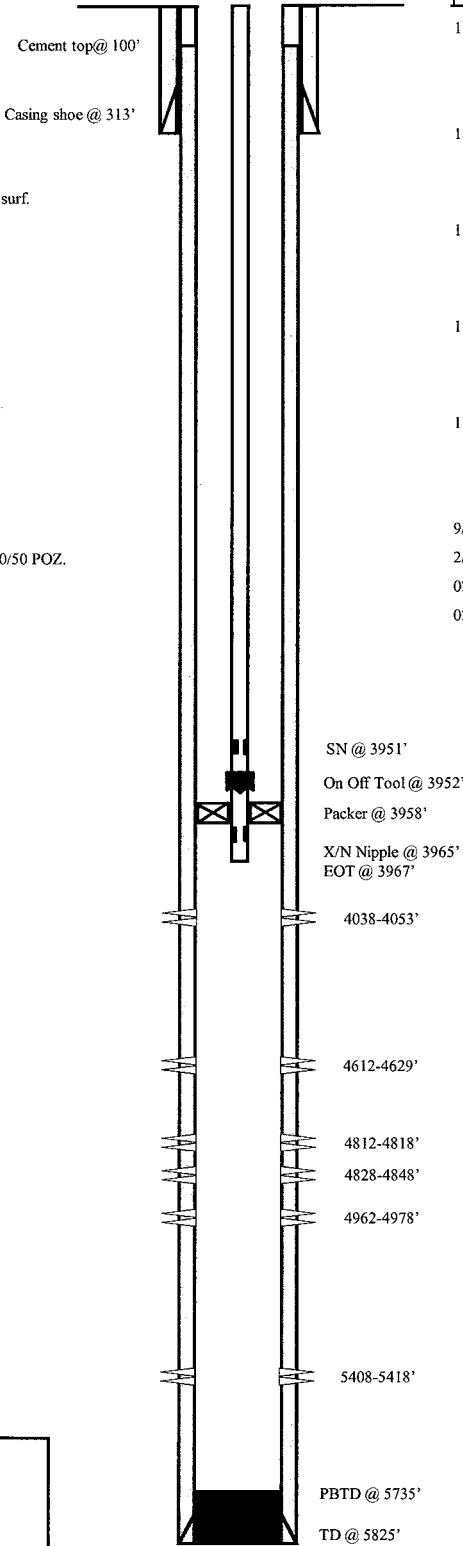
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 131??? jts (3939.1')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 3951.1' KB  
ON/OFF TOOL AT: 3952.2'  
ARROW #1 PACKER CE AT: 3958.1'  
XO 2-3/8 x 2-7/8 J-55 AT: 3961.0'  
TBG PUP 2-3/8 J-55 AT: 3961.5'  
X/N NIPPLE AT: 3965.5'  
TOTAL STRING LENGTH: EOT @ 3967.13'

FRAC JOB

|          |            |   |
|----------|------------|---|
| 11/01/05 | 5408-5418' | <b>Frac CP1 sands as follows:</b><br>34070# 20/40 sand in 392 bbls Lightning 17 frac fluid. Treated @ avg press of 1933 psi w/avg rate of 24.7 BPM. ISIP 2200 psi. Calc flush: 5406 gal. Actual flush: 5124 gal.      |
| 11/01/05 | 4962-4978' | <b>Frac A1 sands as follows:</b><br>89150# 20/40 sand in 655 bbls Lightning 17 frac fluid. Treated @ avg press of 1591 psi w/avg rate of 24.7 BPM. ISIP 2100 psi. Calc flush: 4960 gal. Actual flush: 4746 gal.       |
| 11/04/05 | 4812-4848' | <b>Frac B1, B2 sands as follows:</b><br>158872# 20/40 sand in 1078 bbls Lightning 17 frac fluid. Treated @ avg press of 1550 psi w/avg rate of 24.7 BPM. ISIP 2000 psi. Calc flush: 4810 gal. Actual flush: 4582 gal. |
| 11/02/05 | 4612-4629' | <b>Frac D2 sands as follows:</b><br>29350# 20/40 sand in 344 bbls Lightning 17 frac fluid. Treated @ avg press of 1762 psi w/avg rate of 24.8 BPM. ISIP 2000 psi. Calc flush: 4610 gal. Actual flush: 4326 gal.       |
| 11/02/05 | 4038-4053' | <b>Frac GB6 sands as follows:</b><br>83194# 20/40 sand in 585 bbls Lightning 17 frac fluid. Treated @ avg press of 1388 psi w/avg rate of 24.7 BPM. ISIP 1900 psi. Calc flush: 4036 gal. Actual flush: 3944 gal.      |
| 9/16/09  |            | <b>Pump Change.</b> Updated rod & tubing details.   |
| 2/23/12  |            | <b>Tubing Leak:</b> Updated rod & tubing detail   |
| 02/18/13 |            | <b>Convert to Injection Well</b>  |
| 02/19/13 |            | <b>Conversion MIT Finalized</b> – update tbg detail   |

PERFORATION RECORD

|          |            |        |          |
|----------|------------|--------|----------|
| 11/01/05 | 5408-5418' | 4 JSPF | 40 holes |
| 11/01/05 | 4962-4978' | 4 JSPF | 64 holes |
| 11/01/05 | 4828-4848' | 4 JSPF | 80 holes |
| 11/01/05 | 4812-4818' | 4 JSPF | 24 holes |
| 11/02/05 | 4612-4629' | 4 JSPF | 68 holes |
| 11/02/05 | 4038-4053' | 4 JSPF | 60 holes |



**Federal 5-13-9-16**  
1981' FNL & 820' FWL  
SW/NW Section 13-T9S-R16E  
Duchesne Co, Utah  
API #43-013-32658; Lease #UTU-64805



## Federal 6-13-9-16

Wellbore Diagram

P & A

Spud Date: 9/26/2005

Put on Production:

GL: 5514' KB: 5526'

### SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (303.52')

DEPTH LANDED: 313.52'

HOLE SIZE: 12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt, circ. 5.5 bbls to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 132 jts. (5813.38')

DEPTH LANDED: 5813.38'

HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sxs Prem. Lite II & 450 sxs 50/50 POZ. 9 bbls to surf.

CEMENT TOP AT: No CBL run

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: jts (')

TUBING ANCHOR:

NO. OF JOINTS: 1 jts (')

SEATING NIPPLE: 2-7/8" (1.1')

SN LANDED AT:

NO. OF JOINTS: jts (')

TOTAL STRING LENGTH: EOT @

### SUCKER RODS

POLISHED ROD:

SUCKER RODS:

PUMP SIZE:

STROKE LENGTH:

PUMP SPEED, SPM:

### FRAC JOB

03-2006

09/19/12

### Operations Suspended

P&A - CIBP @ 3510' TOC @ 3355', CIBP @ 1400' TOC @ 1168, 15.5 sacks Class G cement down both casings to surface. Stoney Anderton w/ BLM witnessed the P&A. Weld plate, back fill hole, dig up deadmen & cut off 3' below ground level. South Slope Reclamation to do dirt work.

Cement Plug 0'-314'  
15.5 sxs Class G Cement

Plug # 2 - Green River TOC 1168'  
50 sxs Class G Cement plug on top of CIBP  
CIBP @ 1400'

Plug # 1 - Garden Gulch TOC @ 3355'  
18 sxs Class G Cement plug on top of CIBP  
CIBP @ 3510'

### PERFORATION RECORD

**NEWFIELD**



**Federal 6-13-9-16**  
1794' FNL & 1960' FWL (SE/NW)  
Section 13, T9S, R16E  
Duchesne Co, Utah  
API # 43-013-32657; Lease # UTU-64805

TD @ 5825'

## Federal 12-13-9-16

Spud Date: 9-29-05  
 Put on Production: 11-23-05  
 GL: 5490' KB: 5502'

## Wellbore Diagram

Initial Production: BOPD,  
 MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (304.74')  
 DEPTH LANDED: 315.64' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 133 jts. (5714.51')  
 DEPTH LANDED: 5668.64' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.  
 CEMENT TOP AT: 250'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 166 jts (5344.2')  
 TUBING ANCHOR: 5356.2' KB  
 NO. OF JOINTS: 2 jts (64.50')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5423.5' KB  
 NO. OF JOINTS: 2 jts (62.44')  
 TOTAL STRING LENGTH: EOT @ 5487' KB

SUCKER RODS

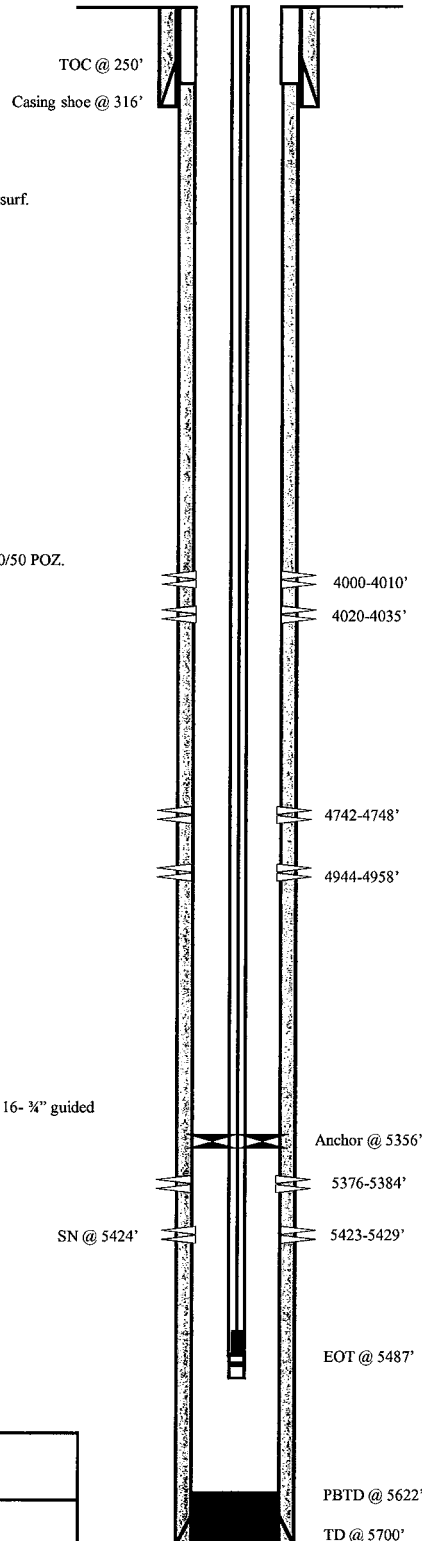
POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 100- 3/4" guided rods, 94- 3/4" guided rods. 16- 3/4" guided rods, 6-1 1/2" weight rods  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC w/SM plunger  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 5 SPM


FRAC JOB

|          |            |  |
|----------|------------|--|
| 11-16-05 | 5376-5429' | <b>Frac CP1, CP2 sands as follows:</b><br>50812# 20/40 sand in 434 bbls Lightning 17 frac fluid. Treated @ avg press of 2030 psi w/avg rate of 25.1 BPM. ISIP 2250 psi. Calc flush: 5374 gal. Actual flush: 5078 gal.        |
| 11-16-05 | 4944-4958' | <b>Frac A1 sands as follows:</b><br>80407# 20/40 sand in 591 bbls Lightning 17 frac fluid. Treated @ avg press of 2025 psi w/avg rate of 25 BPM. ISIP 2270 psi. Calc flush: 4942 gal. Actual flush: 4700 gal.                |
| 11-17-05 | 4742-4748' | <b>Frac B.5 sands as follows:</b><br>25030# 20/40 sand in 323 bbls Lightning 17 frac fluid. Treated @ avg press of 2055 psi w/avg rate of 25.1 BPM. ISIP 1980 psi. Calc flush: 4740 gal. Actual flush: 4746 gal.             |
| 11-17-05 | 4000-4035' | <b>Frac GB4, &amp; GB6 sands as follows:</b><br>112538# 20/40 sand in 755 bbls Lightning 17 frac fluid. Treated @ avg press of 1673 psi w/avg rate of 25.2 BPM. ISIP 1850 psi. Calc flush: 3998 gal. Actual flush: 3906 gal. |
| 9/17/09  |            | Pump Change. Updated rod & tubing details.   |
| 12/16/10 |            | Tubing Leak. Rod & tubing updated.   |

PERFORATION RECORD

|          |            |        |          |
|----------|------------|--------|----------|
| 11-04-05 | 5423-5429' | 4 JSPF | 24 holes |
| 11-04-05 | 5376-5384' | 4 JSPF | 32 holes |
| 11-16-05 | 4944-4958' | 4 JSPF | 56 holes |
| 11-16-05 | 4742-4748' | 4 JSPF | 24 holes |
| 11-17-05 | 4020-4035' | 4 JSPF | 60 holes |
| 11-17-05 | 4000-4010' | 4 JSPF | 40 holes |



|  |
|--|
|   |
| <b>Federal 12-13-9-16</b><br>2018' FSL & 651' FWL<br>NW/SW Section 13-T9S-R16E<br>Duchesne Co, Utah<br>API #43-013-32651; Lease #UTU-64805 |

## Federal 21-13Y-9-16

Spud Date: 8/13/1993

Put on Production: 9/16/1993

GL: 5535' KB: 5545'

Initial Production: 84 BOPD,  
126 MCFD, 7 BWPDInjection Wellbore  
DiagramSURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 6 jts. (275')

DEPTH LANDED: 259'

HOLE SIZE: 12-1/4"

CEMENT DATA: 150 sxs Premium Plus cement, est 6 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: K-55

WEIGHT: 15.5#

LENGTH: 139 jts. (5945.72')

DEPTH LANDED: 5945.72'

HOLE SIZE: 7-7/8"

CEMENT DATA: 145 sxs Hillift cement &amp; 325 sxs Class "G".

CEMENT TOP AT: 1040' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

TBG: 1 jt N-80 (2.0')

NO. OF JOINTS: 130 jts (4014.0')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 4026.0' KB

ON OFF TOOL 2-7/8" AT: 4027.1'

PACKER CE AT: 4031.7'

NO. OF JOINTS: 22 jts (681.5')

XO: 2-7/8" x 2-3/8" (0.5) AT: 4717.4'

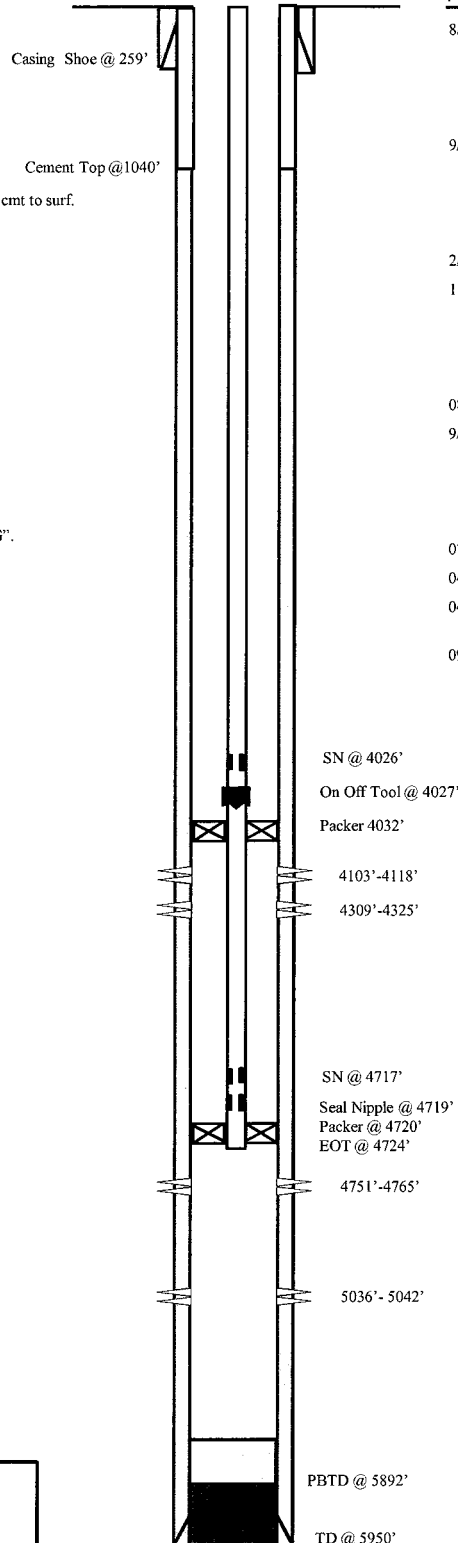
SEATING NIPPLE: 2-3/8" (1.10')

SEATING NIPPLE: 4717.9'

SEAL NIPPLE 3-7/8 OD J-55 AT: 4719.0'

PACKER CE AT: 4720'

TOTAL STRING LENGTH: EOT @ 4724' KB

FRAC JOB

8/28/93 4751'-4765'

**Frac as follows:**

20,140# 20/40 sand & 15,380# 16/30 sand in 371 bbls gelled KCL frac fluid. Treated @ avg press of 1900 psi w/avg rate of 20 BPM. ISIP 1850 psi.

9/1/93 4309'-4325'

**Frac as follows:**

33,600# 16/30 sand in 377 bbls gelled KCL frac fluid. Treated @ avg press of 2050 psi w/avg. rate of 24.5 BPM. ISIP 1800 psi.

2/14/01

**Tubing job.** Update Rod and tubing details.

11/17/05 4103-4118

**Frac GB6 sds as follows:**

55,211# 20/40 sand in 439 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1870 w/ ave rate of 25.2 bpm w/ 8 ppg of sand. ISIP was 2150. Actual flush: 4032 gals

08/29/08

**Recompletion.** Rod & Tubing detail updated.

9/3/08 5036-5042

**Frac A1 sds as follows:**

16,591# 20/40 sand in 238 bbls of Lightning 17 fluid. Treated w/ ave pressure of 3442 psi @ ave rate of 13.1BPM. ISIP 1962 psi. Actual flush: 1218 gals.

07/25/10

**Tubing Leak.** Rod & Tubing detail updated.

04/09/12

**Convert to Injection Well**

04/11/12

**Conversion MIT Finalized** – tbg detail updated

09/13/12

**Workover MIT Finalized** – ran CBL – update tbg detailPERFORATION RECORD

|          |             |         |          |
|----------|-------------|---------|----------|
| 8/26/93  | 4751'-4765' | 2 JSPF  | 28 holes |
| 8/31/93  | 4309'-4325' | 2 JSPF  | 32 holes |
| 11/17/05 | 4103-4118'  | 40 JSPF | 60 holes |
| 9/3/08   | 5036-5042'  | 4 JSPF  | 24 holes |



**Federal 21-13Y-9-16**  
702' FNL & 1830' FWL  
NENW Section 13-T9S-R16E  
Duchesne Co, Utah  
API #43-013-31400; Lease #UTU-64805

## Jonah Federal T-11-9-16

Spud Date: 09/25/2009  
 Put on Production: 11/02/2009  
 GL: 5503' KB: 5515'

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (307.66')  
 DEPTH LANDED: 319.51'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 135 jts. (6014.88') Includes Shoe Jt. (20.0')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 6028.13'  
 CEMENT DATA: 250 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 62'

TUBING

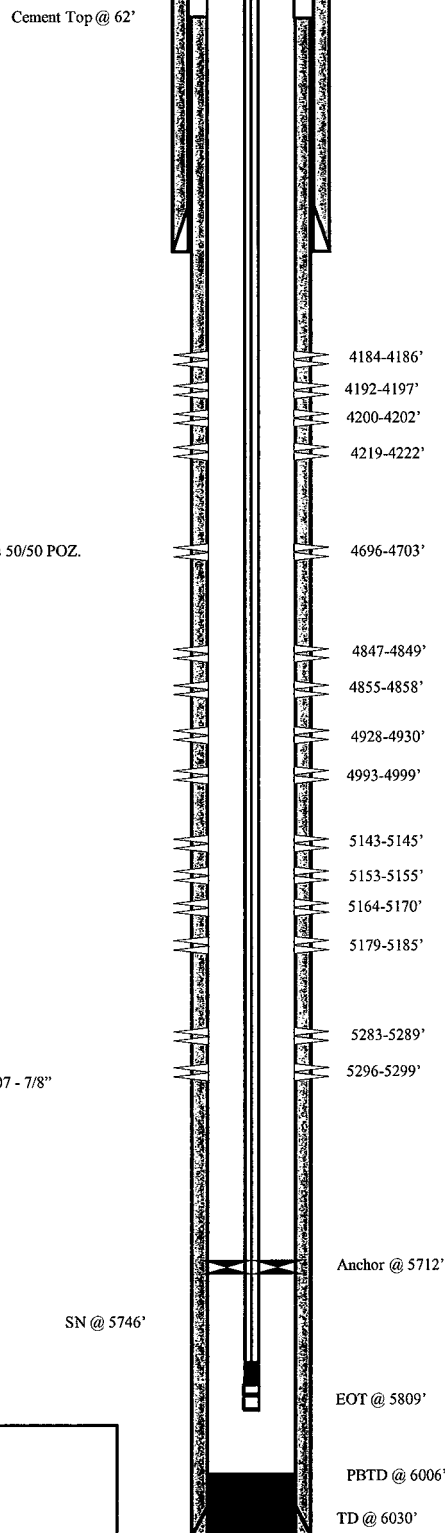
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 179 jts (5700')  
 TUBING ANCHOR: 5712'  
 NO. OF JOINTS: 1 jts (31.5')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 5746.3' KB  
 NO. OF JOINTS: 2 jts (61.5')  
 TOTAL STRING LENGTH: EOT @ 5809'

SUCKER RODS

POLISHED ROD: 1-1/2" x 30'  
 SUCKER RODS: 1 - 2' x 7/8", 1 - 8' x 7/8" pony rods, 207 - 7/8"  
 8per guided rods, 4 - 1 1/2" weight bars  
 PUMP SIZE: 2 1/2 x 1 3/4 x 17' x 24' RHAC  
 STROKE LENGTH: 144  
 PUMP SPEED: SPM 6

FRAC JOB

|          |            |  |
|----------|------------|--|
| 11-03-09 | 5283-5299' | <b>Frac LODC sands as follows:</b><br>Frac with 16631# 20/40 sand in 106 bbls Lightning 17 fluid.            |
| 11-03-09 | 5143-5185' | <b>Frac A1 &amp; A3 sands as follows:</b><br>Frac with 90329# 20/40 sand in 544 bbls Lightning 17 fluid.     |
| 11-03-09 | 4847-4999' | <b>Frac B2, C &amp; B.5 sands as follows:</b><br>Frac with 60136# 20/40 sand in 370 bbls Lightning 17 fluid. |
| 11-03-09 | 4696-4703' | <b>Frac D1 sands as follows:</b> Frac with 14128# 20/40 sand in 124 bbls Lightning 17 fluid.                 |
| 11-03-09 | 4184-4222' | <b>Frac GB6 sands as follows:</b> Frac with 27979# 20/40 sand in 223 bbls Lightning 17 fluid.                |

PERFORATION RECORD

|            |        |       |
|------------|--------|-------|
| 5296-5299' | 3 JSPF | holes |
| 5283-5289' | 3 JSPF | holes |
| 5179-5185' | 3 JSPF | holes |
| 5164-5170' | 3 JSPF | holes |
| 5153-5155' | 3 JSPF | holes |
| 5143-5145' | 3 JSPF | holes |
| 4993-4999' | 3 JSPF | holes |
| 4928-4930' | 3 JSPF | holes |
| 4855-4858' | 3 JSPF | holes |
| 4847-4849' | 3 JSPF | holes |
| 4696-4703' | 3 JSPF | holes |
| 4219-4222' | 3 JSPF | holes |
| 4200-4202' | 3 JSPF | holes |
| 4192-4197' | 3 JSPF | holes |
| 4184-4186' | 3 JSPF | holes |



**Jonah Federal T-11-9-16**  
 709' FSL & 725' FEL  
 Section 11, T9S, R16E  
 Duchesne Co, Utah

API # 43-013-34080; Lease # UTU-096550

## Jonah Federal 15-12-9-16

Spud Date: 10-08-05  
Put on Production: 11-11-05  
GL: 5499' KB: 5511'

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (296.84')  
DEPTH LANDED: 308.69' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 6.5 bbls cmt to surf.

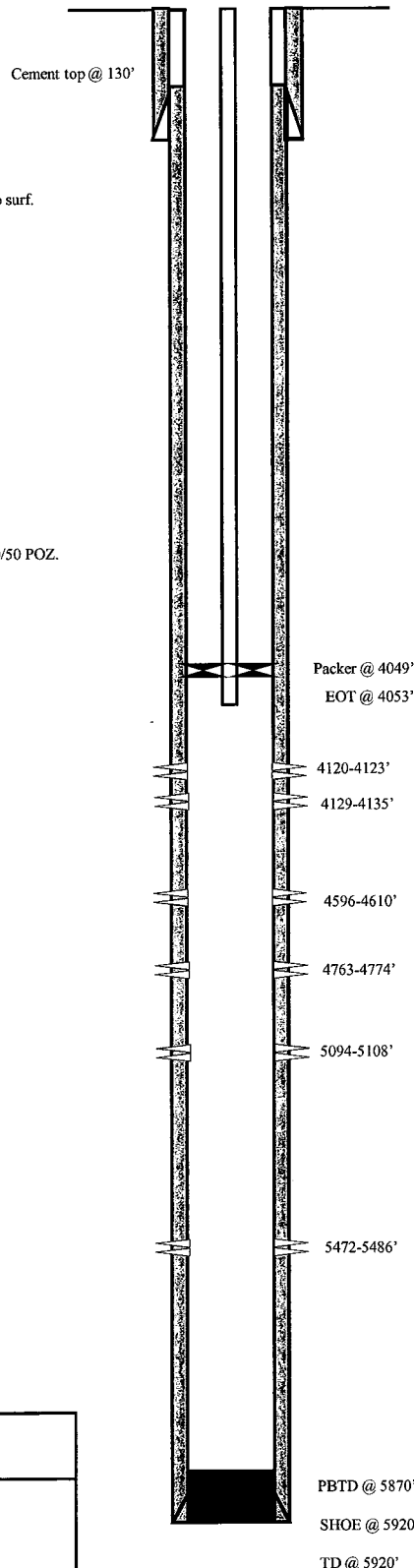
### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 136 jts. (5906.75')  
DEPTH LANDED: 5920' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 350 sxs Prem. Lite II mixed & 475 sxs 50/50 POZ.  
CEMENT TOP AT: 130'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 121 jts (4032.45')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4044.45' KB  
TOTAL STRING LENGTH: EOT @ 4053.00' KB

### Injection Wellbore Diagram



Initial Production: BOPD,  
MCFD, BWPD

### FRAC JOB

|          |            |   |
|----------|------------|---|
| 11-07-05 | 5472-5486' | <b>Frac CP1, sands as follows:</b><br>59446# 20/40 sand in 585 bbls Lightning 17 frac fluid. Treated @ avg press of 1739 psi w/avg rate of 24.9 BPM. ISIP 1970 psi. Calc flush: 5470 gal. Actual flush: 5048 gal. |
| 11-07-05 | 5094-5108' | <b>Frac A3, sands as follows:</b><br>80231# 20/40 sand in 602 bbls Lightning 17 frac fluid. Treated @ avg press of 1586 psi w/avg rate of 24.8 BPM. ISIP 1990 psi. Calc flush: 5092 gal. Actual flush: 4704 gal.  |
| 11-07-05 | 4763-4774' | <b>Frac C sands as follows:</b><br>29525# 20/40 sand in 350 bbls Lightning 17 frac fluid. Treated @ avg press of 1861 psi w/avg rate of 24.7 BPM. ISIP 2080 psi. Calc flush: 4761 gal. Actual flush: 4473 gal.    |
| 11-08-05 | 4596-4610' | <b>Frac D1 sands as follows:</b><br>80686# 20/40 sand in 590 bbls Lightning 17 frac fluid. Treated @ avg press of 1924 w/ avg rate of 25 BPM. ISIP 2220 psi. Calc flush: 4594 gal. Actual flush: 3990 gal.        |
| 11-08-05 | 4120-4135' | <b>Frac GB6 sands as follows:</b><br>31631# 20/40 sand in 341 bbls Lightning 17 frac fluid. Treated @ avg press of 1738 w/ avg rate of 24.9 BPM. ISIP 2030 psi. Calc flush: 4118 gal. Actual flush: 4032 gal.     |
| 5/1/07   |            | <b>Well converted to an Injection well. MIT completed and submitted.</b>  |

### PERFORATION RECORD

|          |            |        |          |
|----------|------------|--------|----------|
| 11-02-05 | 5472-5486' | 4 JSPF | 56 holes |
| 11-07-05 | 5094-5108' | 4 JSPF | 56 holes |
| 11-07-05 | 4763-4774' | 4 JSPF | 44 holes |
| 11-08-05 | 4596-4610' | 4 JSPF | 56 holes |
| 11-08-05 | 4129-4135' | 4 JSPF | 24 holes |
| 11-08-05 | 4120-4123' | 4 JSPF | 12 holes |

**NEWFIELD**

**Jonah Federal 15-12-9-16**

427' FSL & 2355' FEL

SW/SE Section 12-T9S-R16E

Duchesne Co, Utah

API #43-013-32627; Lease #UTU-35521

## Jonah Fed I-14-9-16

Spud Date: 10/28/08  
Put on Production: 12/17/08

GL: 5575' KB: 5587'

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (316.06')  
DEPTH LANDED: 326.06' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sx Class 'g' cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 159 jts (6278.9')  
DEPTH LANDED: 6095.70'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sx premlite and 425 sx 50/50 poz  
CEMENT TOP AT: 64'

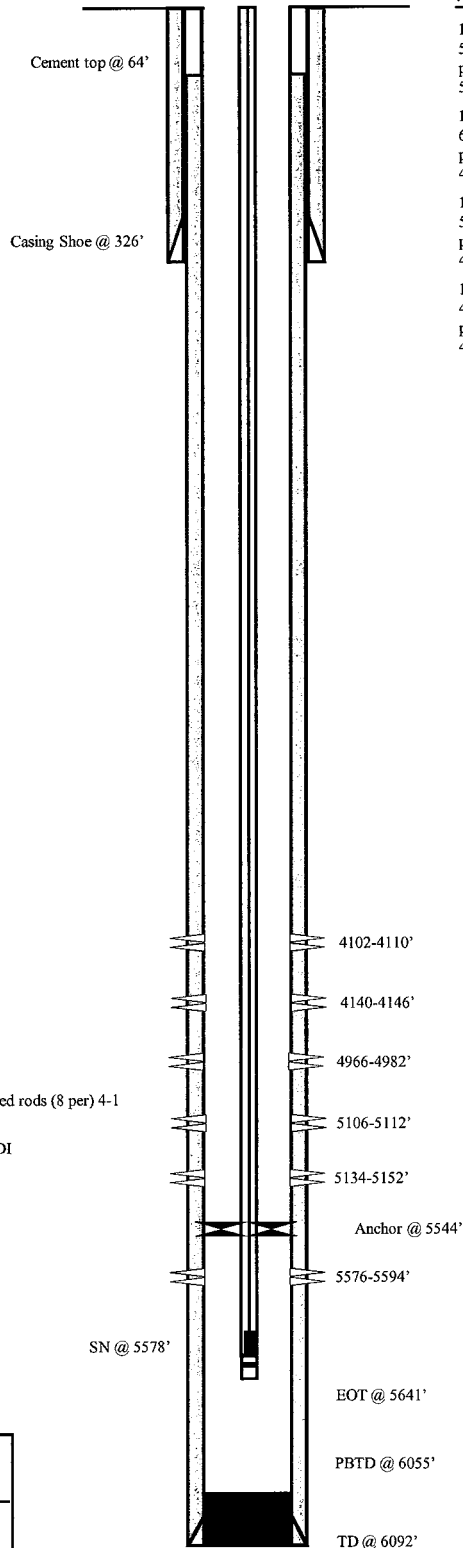
TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55  
NO. OF JOINTS: 180 jts (5532.40')  
TUBING ANCHOR: 5544.40' KB  
NO. OF JOINTS: 1 jt (30.85')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5578.05' KB  
NO. OF JOINTS: 2 jts (61.81')  
TOTAL STRING LENGTH: EOT @ 5641.41'

SUCKER RODS

POLISHED ROD: 1 1/2" x 26" polished rod  
SUCKER RODS: 1-2", 4", 6", 8" x 7/8" pony, 218-7/8" guided rods (8 per) 4-1 1/2" wt bars shear coupler  
PUMP SIZE: 1 1/2" x 1 3/4" x 16" x 20" RHAC rod pump - CDI  
STROKE LENGTH:  
PUMP SPEED, SPM:

## Wellbore Diagram

FRAC JOB

**12/9/08 5576-5594' Frac CP1 sds as follows:**  
50,690# 20/40 sand in 472 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1937 psi @ ave rate of 23.1 BPM. ISIP 2139 psi. Actual flush: 5040 gals.

**12/10/08 5106-5152' Frac A1 & A3 sds as follows:**  
60,419# 20/40 sand in 514 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2180 psi @ ave rate of 23.1 BPM. ISIP 2427 psi. Actual flush: 4599 gals.

**12/10/08 4966-4982' Frac B2 sds as follows:**  
55,874# 20/40 sand in 494 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1944 psi @ ave rate of 23.1 BPM. ISIP 2040 psi. Actual flush: 4410 gals.

**12/10/08 4102-4110' Frac GB2 & GB4 as follows:**  
40,929# 20/40 sand in 391 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1862 psi @ ave rate of 23.2 BPM. ISIP 2019 psi. Actual flush: 4032 gals.

PERFORATION RECORD

|          |            |        |          |
|----------|------------|--------|----------|
| 12/9/08  | 5576-5594' | 4 JSPF | 72 holes |
| 12/9/08  | 5134-5152' | 4 JSPF | 72 holes |
| 12/9/08  | 5106-5112' | 4 JSPF | 24 holes |
| 12/9/08  | 4966-4982' | 4 JSPF | 64 holes |
| 12/10/08 | 4140-4146' | 4 JSPF | 24 holes |
| 12/10/08 | 4102-4110' | 4 JSPF | 32 holes |

**Jonah I-14-9-16**

1919' FNL & 1900' FEL

SW/NE Section 14-T9S-R16E

Duchesne Co, Utah

API # 43-013-34013; Lease # UTU-096550

## Jonah Unit #8-14

Spud Date: 5/22/98

Put on Production: 6/22/98  
GL: 5607' KB: 5617'

Initial Production: 159 BOPD,  
133 MCFPD, 34 BWPD

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (290')  
DEPTH LANDED: 291'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sxs Premium cmt, est 1-1/2 bbls to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 133 jts. (5677')  
DEPTH LANDED: 5688' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 320 sk Poz Type III mixed & 310 sxs Class G  
CEMENT TOP AT: 2566' per CBL

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
NO. OF JOINTS: 127 jts (1992.0')  
TUBING ANCHOR: 5020'  
NO. OF JOINTS: 1 jt (62.5')  
SEATING NIPPLE: 5-1/2" (1.10")  
SN LANDED AT: 5086'  
NO. OF JOINTS: 2 jt (62.5')  
TOTAL STRING LENGTH: EOT @ 5152'

#### SUCKER RODS

POLISHED ROD:  
SUCKER RODS: 55- 3/4" guided rods, 97- 3/4" guided rods, 4- 3/4" guided rods, 4- 1 1/2" weight bars  
PUMP SIZE: 2-1/2" x 1-1/2" x 16 RHAC  
STROKE LENGTH: ?  
PUMP SPEED, SPM: ?  
LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

#### FRAC JOB

6/13/98 5046'-5072' **Frac A-3 sand as follows:**  
114,000# 20/40 sand in 565 bbls Viking I-25 fluid. Perf Brokedown @ 3823 psi. Treated @ avg press of 1875 psi, w/avg rate of 30 BPM. ISIP: 2350 psi, 5-min 2100 psi. Flowback on 12/64 choke for 3 hours and died.

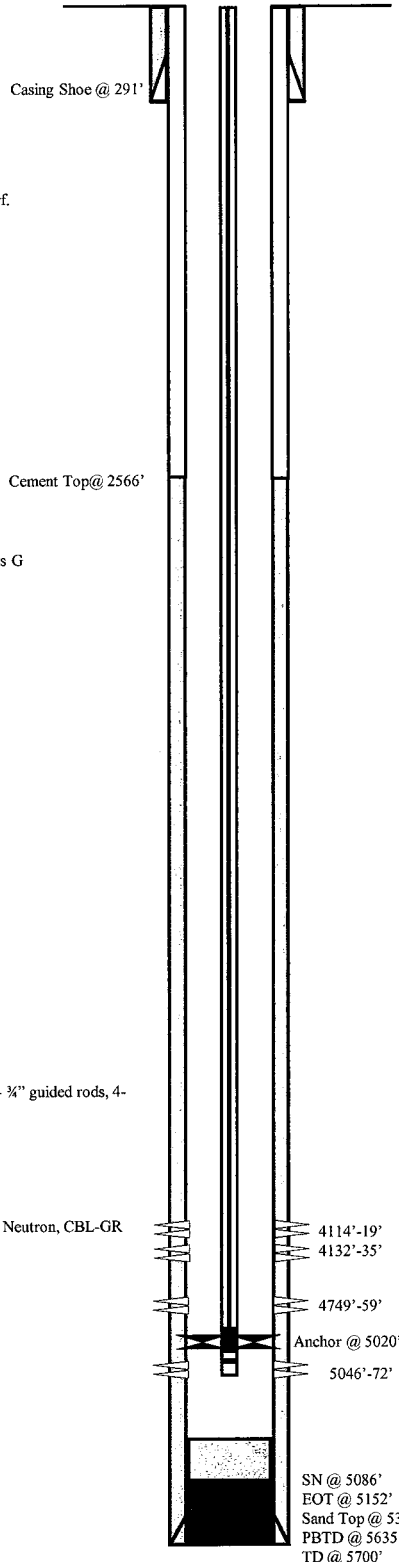
6/16/98 4749'-4759' **Frac C sand as follows:**  
113,994# of 20/40 sand in 546 bbls Viking I-25 fluid. Perfs Brokedown @ 3032 psi. Treated @ avg press of 2000 psi w/ avg rate of 28 bpm. ISIP: 2250 psi, 5-min 2000 psi. Flowback on 12/64" choke for 3-1/2 hours and died.

6/18/98 4114'-4135' **Frac GB sand as follows:**  
96,580# 20/40 sand in 475 bbls Viking I-25 fluid. Perfs brokedown @ 3387 psi. Treated @ avg press of 1850 psi w/avg rate of 24.5 BPM. ISIP 1850 psi, 5-min 1535 psi. Flowback on 12/64" choke for 2-1/2 hours and died.

7/9/2010  
**NOTE:** Workover. Updated rod and tubing detail. The LA-14-9-16 runs diagonally across this well location which places the beginning joints at a 1992' depth and renders placement of the anchor at a deeper depth.

#### PERFORATION RECORD

|         |             |        |          |
|---------|-------------|--------|----------|
| 6/13/98 | 5046'-5072' | 2 JSPF | 52 holes |
| 6/15/98 | 4749'-4759' | 4 JSPF | 40 holes |
| 6/17/98 | 4114'-4119' | 4 JSPF | 20 holes |
| 6/17/98 | 4132'-4135' | 4 JSPF | 12 holes |



**Jonah Unit #8-14**  
1882 FNL 773 FEL  
SENE Section 14-T9S-R16E  
Duchesne Co, Utah  
API #43-013-32054; Lease #U-096550

ML 7/22/10  
4/10/2013

# Walton Federal #1

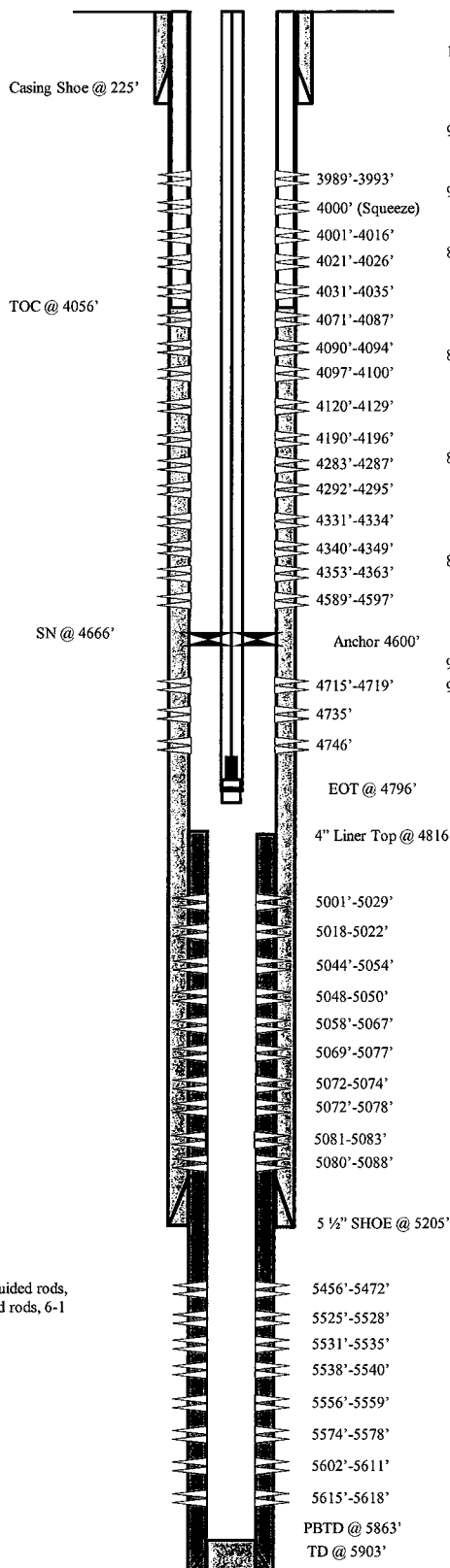
## 1-11-9-16

Spud Date: 4/01/1964

GL: 5501' KB: 5513'

Initial Production: 1073 BOPD,  
100 MCFG

## Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 9-5/8"

GRADE: J-55

WEIGHT: 32.2#

LENGTH: 7 jts. (212')

DEPTH LANDED: 225'

HOLE SIZE: 12-1/4"

CEMENT DATA: 225 sxs cement

**PRODUCTION CASING**

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 167 jts. (5192')

DEPTH LANDED: 5205'

HOLE SIZE: 7 7/8"

CEMENT DATA: 400 sacks cmt.

CEMENT TOP AT: 4056' per CBL

CSG SIZE: 4"

GRADE: J-55

WEIGHT: 11#

LENGTH: 1077'

DEPTH LANDED: 5901'

HOLE SIZE: 4 3/4"

CEMENT DATA: 201 sacks cmt.

CEMENT TOP AT: ????? After squeeze

4" Liner Top @ 4816'

**TUBING**

SIZE/GRADE/WT: 2 7/8" / J-55 / 6.5#

NO. OF JOINTS: 146 jts (4588.2')

TUBING ANCHOR: 4600.2'

NO. OF JOINTS: 2 jts (62.9')

SEATING NIPPLE: 2 7/8" (1.10')

SN LANDED AT: 4666' KB

NO. OF JOINTS: 1 jts (31')

TOTAL STRING LENGTH: EOT @ 4796' W/ 12' KB

**SUCKER RODS**

POLISHED ROD: 1 1/2" x 22' SM

SUCKER RODS: 1-2' x 3/4", 2-8' x 3/4" pony rods, 91 - 3/4" guided rods, 40 - 3/4" sucker rods, 28 - 3/4" guided rods, 20 - 3/4" 4per guided rods, 6-1 1/2" sinker bars

PUMP SIZE: 2 1/2" x 1 3/4" x 16' x 20' RHAC

STROKE LENGTH: 86

PUMP SPEED, SPM: 5 SPM



**Walton Federal #1 1-11-9-16**  
 705' FSL & 704' FEL  
 SESE Section 11-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-15792; Lease #U-096550

**FRAC JOB**

|          |             |  |
|----------|-------------|--|
| 5/07/64  | 5007'-5020' | <b>Frac zone as follows:</b><br>21,000# 20/40 sand + 2000# 8/12 beads in 500 bbl crude oil. Treated @ 3750 psi @ 37 BPM.   |
| 5/07/64  | 4735'-4746' | <b>Frac zone as follows:</b><br>20,000# 20/40 sand + 2000# 8/12 beads in 475 bbl crude oil. Treated @ 3700 psi @ 32 BPM.   |
| 10/05/66 | 4735'-5084' | <b>Frac zone as follows:</b><br>62,000# 20/40 sand + 2000# beads in 1750 bbl 1% acetic acid. Treated @ 2800 psi @ 54 BPM. Calc. flush: 5075 gal. Actual flush: 6500 gal.   |
| 9/25/96  | 5007'-5084' | <b>Frac zone as follows:</b><br>29,760# 16/30 sand in 168 bbl KCl. Treated @ 3450 psi @ 13 BPM, ISIP 1990 psi.   |
| 9/25/96  | 4589'-4746' | <b>Frac zone as follows:</b><br>12,000# 16/30 sand in 212 bbl KCl. Treated @ 2900 psi @ 22.5 BPM, ISIP 2520 psi.   |
| 8/11/03  | 5456'-5618' | <b>Frac CP1, CP2, &amp; CP3 sands as follows:</b><br>120,283# 20/40 sand in 879 Bbls Viking I-25 fluid. Treated @ avg. press of 3825 psi w/ avg. rate of 14.4 BPM. ISIP: 1770 psi. Calc flush: 1270 Gal. Actual flush: 1218 gal.                 |
| 8/12/03  | 4589'-4597' | <b>Re-Frac D1 sands as follows:</b><br>20,026# 20/40 sand in 235 Bbls Viking I-25 fluid. Treated @ avg. press of 3340 psi w/ avg rate of 17.3 BPM. ISIP 3850 psi. Calc flush: 4587 gal. Actual flush: 4410 gal.                                  |
| 8/13/03  | 4190'-4363' | <b>Frac PB7, PB10, &amp; PB11 sands as follows:</b><br>65,480# 20/40 sand in 485 Bbls Viking I-25 fluid. Treated @ avg. press of 3225 psi w/ avg rate of 23.6 BPM. ISIP: 3850 psi. Calc. Flush: 4188 gal. Actual flush: 2142 gal. (Screened Out) |
| 8/13/03  | 3989'-4129' | <b>Frac GB2, GB4, and GB6 sands as follows:</b><br>155,102# 20/40 sand in 996 Bbls Viking I-25 fluid. Treated @ avg. press of 1950 psi w/ avg. rate of 24.5 BPM. ISIP: 2200 psi. Calc flush: 3987 gal. Actual flush: 3906 gal.                   |
| 9/20/10  |             | <b>Re-Completion</b>   |
| 9/14/10  | 5018-5083'  | <b>Frac A1 &amp; A3 sands as follows:</b><br>33495# 20/40 sand in 261 bbls Lightning 17 fluid.   |

**PERFORATION RECORD**

|         |                 |        |          |
|---------|-----------------|--------|----------|
| 5/06/64 | 5020'           | 3 SPF  | 03 holes |
| 5/06/64 | 5013'           | 3 SPF  | 03 holes |
| 5/06/64 | 5007'           | 3 SPF  | 03 holes |
| 5/06/64 | 4746'           | 3 SPF  | 03 holes |
| 5/06/64 | 4735'           | 3 SPF  | 03 holes |
| 10/5/66 | 5075'           | 1 SPF  | 01 hole  |
| 10/5/66 | 5084'           | 1 SPF  | 01 hole  |
| 08/1982 | 4589'-4597'     | ??     | holes    |
| 9/24/96 | 5072'-5078'     | 2 SPF  | 12 holes |
| 9/24/96 | 5046'-5054'     | 2 SPF  | 16 holes |
| 9/24/96 | 4715'-4719'     | 4 SPF  | 16 holes |
| 9/24/96 | 4590'-4595'     | 4 SPF  | 20 holes |
| 7/24/03 | 4000' (squeeze) | 4 JSPF | 4 holes  |
| 8/11/03 | 5615'-5618'     | 4 JSPF | 12 holes |
| 8/11/03 | 5602'-5611'     | 4 JSPF | 36 holes |
| 8/11/03 | 5574'-5578'     | 4 JSPF | 16 holes |
| 8/11/03 | 5556'-5559'     | 4 JSPF | 12 holes |
| 8/11/03 | 5538'-5540'     | 4 JSPF | 8 holes  |
| 8/11/03 | 5531'-5535'     | 4 JSPF | 16 holes |
| 8/11/03 | 5525'-5528'     | 4 JSPF | 12 holes |
| 8/11/03 | 5456'-5472'     | 4 JSPF | 64 holes |
| 8/12/03 | 4353'-4363'     | 4 JSPF | 40 holes |
| 8/12/03 | 4340'-4349'     | 4 JSPF | 36 holes |
| 8/12/03 | 4331'-4334'     | 4 JSPF | 12 holes |
| 8/12/03 | 4292'-4295'     | 4 JSPF | 12 holes |
| 8/12/03 | 4283'-4287'     | 4 JSPF | 16 holes |
| 8/12/03 | 4190'-4196'     | 4 JSPF | 24 holes |
| 8/13/03 | 4120'-4129'     | 4 JSPF | 36 holes |
| 8/13/03 | 4097'-4100'     | 4 JSPF | 12 holes |
| 8/13/03 | 4090'-4094'     | 4 JSPF | 16 holes |
| 8/13/03 | 4071'-4087'     | 4 JSPF | 64 holes |
| 8/13/03 | 4031'-4035'     | 4 JSPF | 16 holes |
| 8/13/03 | 4021'-4026'     | 4 JSPF | 20 holes |
| 8/13/03 | 4001'-4016'     | 4 JSPF | 60 holes |
| 8/13/03 | 3989'-3993'     | 4 JSPF | 16 holes |
| 8/14/03 | 5080'-5088'     | 2 JSPF | 16 holes |
| 8/14/03 | 5069'-5077'     | 2 JSPF | 16 holes |
| 8/14/03 | 5058'-5067'     | 2 JSPF | 18 holes |
| 8/14/03 | 5044'-5054'     | 2 JSPF | 20 holes |
| 8/14/03 | 5001'-5029'     | 2 JSPF | 56 holes |
| 9/14/10 | 5081-5083'      | 3 JSPF | 6 holes  |
| 9/14/10 | 5072-5074'      | 3 JSPF | 6 holes  |
| 9/14/10 | 5048-5050'      | 3 JSPF | 6 holes  |
| 9/14/10 | 5018-5022'      | 3 JSPF | 12 holes |



## Walton Federal 2-14-9-16

Spud Date: 5/23/1964

Put on Production: 7/03/1964

GL: 5546' KB: 5558'

Initial Production: 50 BOPD, 75 MCFD

Injection Wellbore  
DiagramSURFACE CASING

CSG SIZE: 9-5/8"

GRADE: J-55

WEIGHT: 32.2#

LENGTH: 7 jts. (221')

DEPTH LANDED: 232' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 200 sxs Class "G" cmt.

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 151 jts. (4846')

DEPTH LANDED: 4857'

HOLE SIZE: 7-7/8"

CEMENT DATA: 325 cft 10% salt saturated cement.

CEMENT TOP AT: 3576'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 140 jts (4490.5') KB

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 4502.5' KB

ON/OFF TOOL AT: 4503.6'

ARROW #1 PACKER CE AT: 4508.81'

XO 2-3/8 x 2-7/8 J-55 AT: 4512.5'

TBG PUP 2-3/8 J-55 AT: 4513.1'

X/N NIPPLE AT: 4517.2'

TOTAL STRING LENGTH: EOT @ 4519'

Casing Shoe @ 232'

Cement Top @ 3576'

SN @ 4502'

On Off Tool @ 4504'

Packer @ 4509'

X/N Nipple @ 4517'

EOT @ 4519'

4554-4555'

4560-4561'

4724-4725'

4735-4736'

Top of fill @ 4793'

PBTD @ ~4857'

TD @ 5200'

FRAC JOB

6/20/64 4724' - 4736'

**Frac sand as follows:**

11,500# 20/40 sand in 300 bbls crude oil, + 4000# 8/12 beads in 8000 gal. crude oil. Treated @ avg press of 4350 psi w/avg rate of 25 BPM.

6/23/64 4554' - 4561'

**Frac sand as follows:**

12,600# 20/40 sand in 326 bbls crude oil, + 4000# 8/12 beads in 8000 gal. crude oil. Treated @ avg press of 4200 psi w/avg rate of 25 BPM.

12/06/12

**Convert to Injection Well**

12/06/12

**Conversion MIT Finalized** – update tbg detail

PERFORATION RECORD

|         |            |       |          |
|---------|------------|-------|----------|
| 6/16/64 | 4735-4736' | 5 SPF | 05holes  |
| 6/16/64 | 4724-4725' | 5 SPF | 05 holes |
| 6/23/64 | 4560-4561' | 5 SPF | 05 holes |
| 6/23/64 | 4554-4555' | 5 SPF | 05 holes |



**Walton Federal 2-14-9-16**  
 542' FNL & 1869' FEL  
 NWNE Section 14-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-15793; Lease #UTU-096550

## C &amp; O Govt. 1-12-9-16

Spud Date: 10/12/64

Put on Production: 12/10/64

GL: 5456' KB: 5468'

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 10 3/4"

WEIGHT: 32.75#

LENGTH: 8 jts. (217')

DEPTH LANDED: 229'

HOLE SIZE: 12-1/4"

CEMENT DATA: 135 cu. ft. Ideal Type II.

PRODUCTION CASING

CSG SIZE: 5-1/2" / 17# / N-80

LENGTH: 41 jts. (1253.85')

CSG SIZE: 5-1/2" / 15.5# / J-55

LENGTH: 127 jts. (3927.00')

CSG SIZE: 5-1/2" / 17# / N-80

LENGTH: 1 jt. (20.00')

DEPTH LANDED: 5200.00'

HOLE SIZE: 7-7/8"

CEMENT DATA: 315 cu. ft. 50/50 POZ + 75 sxs 50/50 POZ.

CEMENT TOP AT: 4750' per CBL

TUBING

SIZE/GRADE/WT: 2 7/8" / J-55 / 6.5#

NO. OF JOINTS: 154 jts (4755.6')

TUBING ANCHOR: 4767.6' KB

NO. OF JOINTS: 8 jts (250.2')

SEATING NIPPLE: 2 7/8" (1.10')

SN LANDED AT: 5020.6' KB

NO. OF JOINTS: 1 jts Perf sub (4')

NO. OF JOINTS: 1 jts (30.9')

TOTAL STRING LENGTH: EOT @ 5057'

SUCKER RODS

POLISHED ROD: 1 1/4" x 16' polished rods

SUCKER RODS: 1-2' &amp; 1-4' x 3/4" pony rods, 93-3/4" guided rods, 65-3/4" sucker rods, 34-3/4" guided rods, 4-1 5/8" wt bars, 5 1" stabilizer rods

PUMP SIZE: 2 1/2" x 1 1/2" x 16' RHAC

STROKE LENGTH: 44"

PUMP SPEED, SPM: 4 SPM

LOGS: IES, SGR, ML, CBL

FRAC JOB

12/64 5071'-5074'

**Frac zone as follows:**

13,900# sand + 3150# glass beads in 721 bbls lease crude oil. Treated @ avg press of 3850 psi w/avg rate of 37 BPM.

12/64 4893'-4897'

**Frac zone as follows:**

13,900# sand + 1575# glass beads in 721 bbls lease crude oil. Treated @ avg press of 4000 psi w/avg rate of 29 BPM.

5/20/73 5071'-5105'

**Frac zone as follows:**

16,500# 10/20 sand in 381 bbls frac fluid. Treated @ avg press of 2300 psi w/avg rate of 6 BPM.

5/21/73 4752'-4766'

**Frac zone as follows:**

14,000# 10/20 sand in 381 bbls frac fluid. Treated @ avg press of 3500 psi w/avg rate of 16 BPM.

6/18/99

Pump change. Update rod and tubing details.

5/13/03

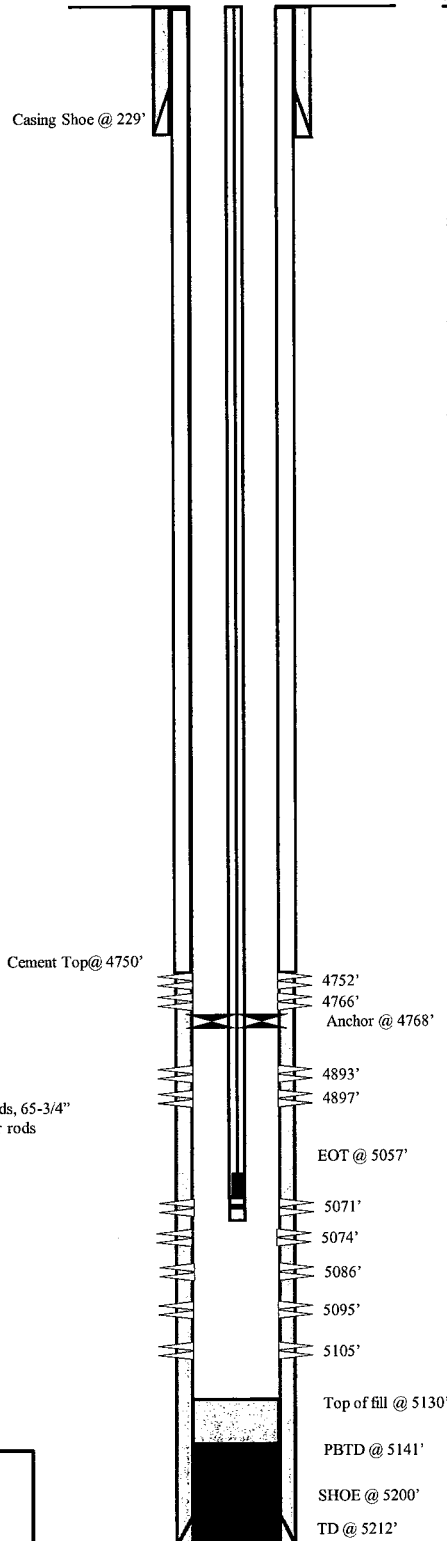
Tubing leak. Update rod and tubing details.

08/29/06

Pump Change. Update rod &amp; Tubing details

3/9/12

Tubing Leak: Updated rod &amp; tubing detail.

PERFORATION RECORD

|       |       |       |          |
|-------|-------|-------|----------|
| 12/64 | 5074' | 4 SPF | 04 holes |
| 12/64 | 5071' | 4 SPF | 04 holes |
| 12/64 | 4897' | 4 SPF | 04 holes |
| 12/64 | 4893' | 4 SPF | 04 holes |
| 05/93 | 5105' | 3 SPF | 03 holes |
| 05/93 | 5095' | 3 SPF | 03 holes |
| 05/93 | 5086' | 3 SPF | 03 holes |
| 05/93 | 4766' | 3 SPF | 03 holes |
| 05/93 | 4752' | 3 SPF | 03 holes |



**C&O Gov't. 1-12-9-16**  
 1905 FSL & 660 FWL  
 NWSW Section 12-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-15111 Lease #U-035521 A

## Monument Fed. 14-12J-9-16

Spud Date: 11/03/93  
Put on Production: 12/18/93  
Put on Injection: 10/28/94  
GL: 5487' KB: 5497'

Initial Production: 70 BOPD,  
NM MCFD, 20 BWPD

### Injection Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (271.17')  
DEPTH LANDED: 279' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 150 sxs Class "G" cmt, est 4 bbls cmt to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: K-55  
WEIGHT: 15.5#  
LENGTH: 131 jts. (5718.17')  
DEPTH LANDED: 5727.17'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 220 sxs Lead cement & 260 sxs 50/50 POZ.  
CEMENT TOP AT: ? per CBL

#### TUBING

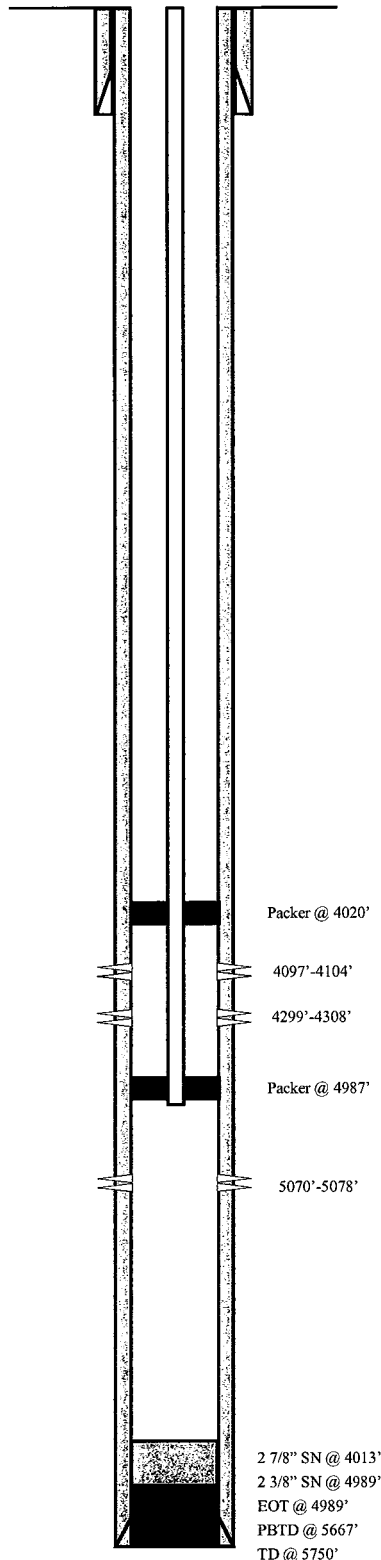
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 129 jts (4002.65')  
SEATING NIPPLE: 2-7/8" (1.12')  
SN LANDED AT: 4013.77' KB  
2 7/8" x 2 3/8" CROSSOVER: 4014.52' KB  
PACKER: 4020.72' KB  
SIZE/GRADE/WT.: 2-3/8" / J-55 / 4.5#  
NO. OF JOINTS: 31 jts (960.38')  
PACKER: 4987.90' KB  
SEATING NIPPLE: 2-3/8" (1.10')  
SN LANDED AT: 4989.00' KB  
TOTAL STRING LENGTH: EOT @ 4989.00'

#### FRAC JOB

|          |             |   |
|----------|-------------|---|
| 12/06/93 | 5070'-5078' | <b>Frac zone as follows:</b><br>25,446# 20/40 sand in 286 bbls 2% KCl.<br>Treated @ avg press of 2341 psi w/avg<br>rate of 17.4 BPM. ISIP 3578 psi. Calc.<br>flush: 5070 gal. Actual flush: 5030 gal. |
| 12/09/93 | 4097'-4308' | <b>Frac zone as follows:</b><br>41,300# 20/40 sand in 457 bbls 2% KCl.<br>Treated @ avg press of 2527 psi w/avg<br>rate of 19 BPM. ISIP 1606 psi. Calc.<br>flush: 4097 gal. Actual flush: 4050 gal.   |
| 04-08-10 |             | <b>5YR MIT</b>  |

#### PERFORATION RECORD

|          |             |       |          |
|----------|-------------|-------|----------|
| 12/06/93 | 5070'-5078' | 2 SPF | 16 holes |
| 12/08/93 | 4299'-4308' |       | 06 holes |
| 12/08/93 | 4097'-4104' |       | 05 holes |



**Monument Fed. #14-12j-9-16**  
660' FSL & 660' FWL  
SWSW Section 12-T9S-R16E  
Duchesne Co, Utah  
API #43-013-31411; Lease #U-035521-A

Spud Date: 12/01/93  
 Put on Production: 1/07/94  
 Put on Injection: 10/29/94  
 GL: 5529' KB: 5539'

# Monument Fed. 41-14J-9-16

Initial Production: 20 BOPD,  
 60 MCFD, 10 BWPD

## Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 6 jts. (271.04')  
 DEPTH LANDED: 279'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 150 sxs Class "G" cmt, est 4 bbls cmt to surf.

### PRODUCTION CASING

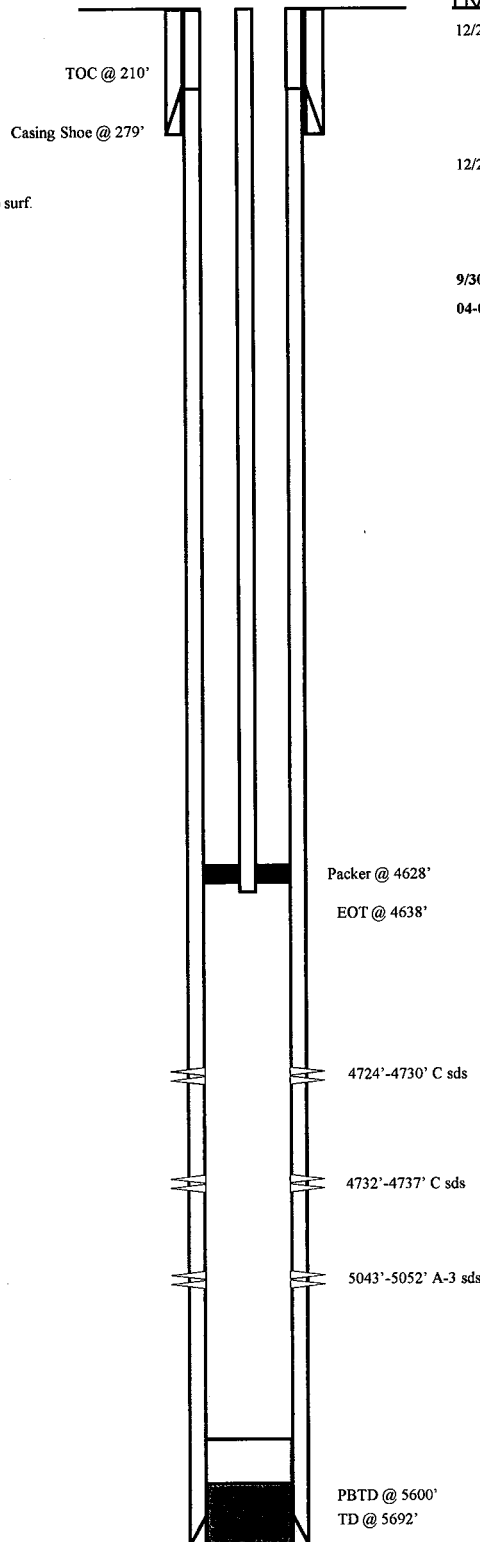
CSG SIZE: 5-1/2"  
 GRADE: K-55  
 WEIGHT: 15.5#  
 LENGTH: 131 jts. (5637.81')  
 DEPTH LANDED: 5646.81' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 225 sxs Hi-Lift & 261 sxs Class "G".  
 CEMENT TOP AT: 210' per CBL

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 149 jts (4627.28')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4627.3' KB  
 2 7/8" x 2 3/8" CROSS-OVER: 4628.4' KB  
 PACKER: 4628.8' KB  
 TOTAL STRING LENGTH: EOT @ 4638'

### FRAC JOB

|          |             |  |
|----------|-------------|--|
| 12/23/93 | 5043'-5052' | <b>Frac sand as follows:</b><br>12,500# 20/40 sand + 6,500# 16/30 sand in 194 bbls 2% KCl fluid. Treated @ avg press of 2300 psi w/avg rate of 19 BPM. ISIP 2800 psi. Calc. flush: 5043 gal, Actual flush: 1344 gal. Screened out. |
| 12/28/93 | 4724'-4737' | <b>Frac sand as follows:</b><br>27,500# 16/30 sand in 354 bbls 2% KCl fluid. Treated @ avg press of 2100 psi w/avg rate of 19.5 BPM. ISIP 2100 psi. Calc. flush: 4724 gal, Actual flush: 4660 gal.                                 |
| 9/30/08  |             | <b>Zone Stimulation.</b>   |
| 04-08-10 |             | <b>5 YR MIT</b>  |



### PERFORATION RECORD

|          |             |        |          |
|----------|-------------|--------|----------|
| 12/22/93 | 5043'-5052' | 2 JSPF | 18 holes |
| 12/28/93 | 4732'-4737' | 2 JSPF | 10 holes |
| 12/28/93 | 4724'-4730' | 2 JSPF | 12 holes |



**Monument Fed. 41-14J-9-16**  
 363' FNL & 600' FEL  
 NENE Section 14-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-31408; Lease #U-096550

## GMBU B-14-9-16

Spud Date: 10/09/2011

PWOP: 12/07/2011

GL: 5505' KB: 5518'

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (314.98')

DEPTH LANDED: 328.30' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 143 jts. (6040.15') Includes Shoe Jt. (42.98')

HOLE SIZE: 7-7/8"

DEPTH LANDED: 6059.66' KB

CEMENT DATA: 225 sxs Prem. Lite II mixed &amp; 455 sxs 50/50 POZ.

CEMENT TOP AT: 47'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 182 jts. (5666.1')

TUBING ANCHOR: 5679.1' KB

NO. OF JOINTS: 1 jt. (31.3')

SEATING NIPPLE: 2-7/8" (1.1')

SN LANDED AT: 5713.2' KB

NO. OF JOINTS: 2 jts. (60.6')

NOTCHED COLLAR: 5774.8' KB

TOTAL STRING LENGTH: EOT @ 5775'

SUCKER RODS

POLISHED ROD: 1-1/2" x 30' Spray Metal Polished Rod

SUCKER RODS: 1 - 7/8" x 4' Pony Rod, 1 - 7/8" x 6' Pony Rod, 1 - 7/8" x 8' Pony Rod, 71 - 7/8" 4per Guided Rods (1775'), 143 - 3/4" 4per Guided Rods (3575'), 12 - 7/8" 8per Guided Rods (300')

PUMP SIZE: 2-1/2" x 1-3/4" x 20' x 24' RHAC

STROKE LENGTH: 144"

PUMP SPEED: 5 SPM

FRAC JOB

|            |            |  |
|------------|------------|--|
| 11/18/2011 | 5529-5705' | <b>Frac CP1 &amp; CP3, sands as follows:</b><br>Frac with 50271# 20/40 white sand in 625 bbls lightning 17 fluid; 841 bbls total fluid to recover.       |
| 11/28/2011 | 5115-5247' | <b>Frac A3 &amp; LODC, sands as follows:</b><br>Frac with 74870# 20/40 white sand in 586 bbls lightning 17 fluid; 706 bbls total fluid to recover.       |
| 11/28/2011 | 4657-4953' | <b>Frac B2, C-Sand &amp; D1, sands as follows:</b><br>Frac with 70185# 20/40 white sand in 541 bbls lightning 17 fluid; 649 bbls total fluid to recover. |
| 11/28/2011 | 4076-4187' | <b>Frac GB2, GB4 &amp; GB6, sands as follows:</b><br>Frac with 99881# 20/40 white sand in 591 bbls lightning 17 fluid; 686 bbls total fluid to recover.  |

PERFORATION RECORD

|            |        |         |
|------------|--------|---------|
| 5704-5705' | 3 JSPF | 3 holes |
| 5697-5698' | 3 JSPF | 3 holes |
| 5692-5693' | 3 JSPF | 3 holes |
| 5556-5557' | 3 JSPF | 3 holes |
| 5551-5552' | 3 JSPF | 3 holes |
| 5544-5545' | 3 JSPF | 3 holes |
| 5529-5530' | 3 JSPF | 3 holes |
| 5246-5247' | 3 JSPF | 3 holes |
| 5173-5174' | 3 JSPF | 3 holes |
| 5158-5159' | 3 JSPF | 3 holes |
| 5151-5152' | 3 JSPF | 3 holes |
| 5144-5145' | 3 JSPF | 3 holes |
| 5115-5116' | 3 JSPF | 3 holes |
| 4951-4953' | 3 JSPF | 6 holes |
| 4948-4949' | 3 JSPF | 3 holes |
| 4812-4813' | 3 JSPF | 3 holes |
| 4807-4808' | 3 JSPF | 3 holes |
| 4657-4658' | 3 JSPF | 3 holes |
| 4185-4187' | 3 JSPF | 6 holes |
| 4144-4145' | 3 JSPF | 3 holes |
| 4137-4139' | 3 JSPF | 6 holes |
| 4081-4082' | 3 JSPF | 3 holes |
| 4076-4077' | 3 JSPF | 3 holes |

**NEWFIELD****GMBU B-14-9-16**

730'FSL &amp; 731' FEL (SE/SE)

Section 11, T9S, R16E

Duchesne County, Utah

API #43-013-50580; Lease # UTU-096550

Anchor @ 5679'

5692-5693'

5697-5698'

5704-5705'

EOT @ 5775'

PBT @ 6014'

TD @ 6077'

**NEWFIELD**
**GMBU C-13-9-16**  
 Monument Butte - Duchesne County, Utah, USA

Surface Location: NE/NE- Sec 13, T9S, R16E; 614' FNL &amp; 1,825' FEL

5,477' GL + 10' KB

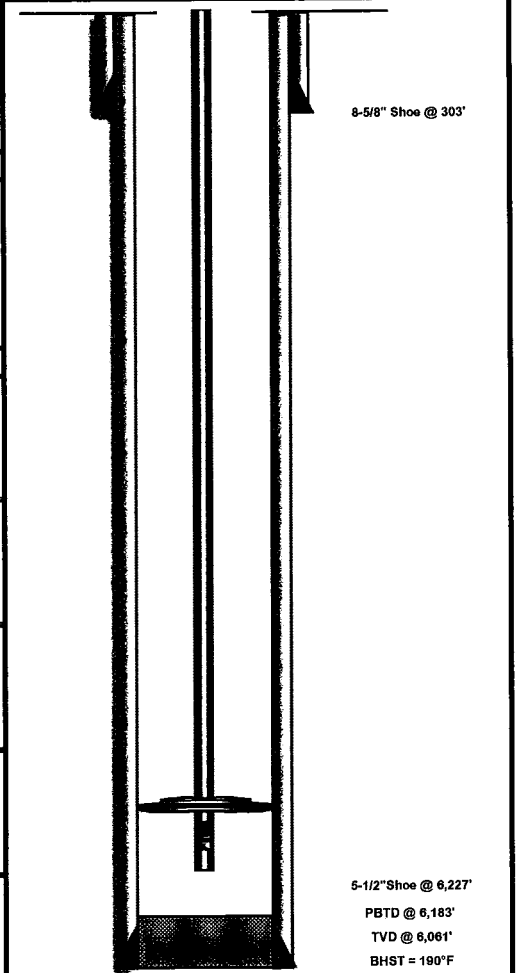
APW: 43-013-51156; Lease#: UTU-64805

Mickey Moulton

PFM 12/4/2012

Spud Date: 9/21/2012; PoP Date: 10/30/2012

| CASING<br>DETAIL | Casing          | Top  | Bottom   | Size     | Wt         | Grade        | Drift        | Burst            | Collapse    | ID  | gal/ft                  | Coupling | Hole   |             |  |  |  |  |
|------------------|-----------------|--|----------|----------|------------|--------------|--------------|------------------|-------------|---|-------------------------|----------|--------|-------------|--|--|--|--|
|                  | Surf            | 10'  | 6,227'   | 8-5/8"   | 24#        | J-55         | 7.972"       | 2,950            | 1,370       | 8.097"  | 2.6749                  | STC      | 12,250 |             |  |  |  |  |
|                  | Prod            | 10'  | 6,227'   | 5-1/2"   | 15.5#      | J-55         | 4.825"       | 4,810            | 4,040       | 4.950"  | 0.9997                  | LTC      | 7.875  |             |  |  |  |  |
| TBC.<br>DETAIL   | Top             | Bottom   | Coupling | Size     | Wt.        | Grade        | Drift        | Burst            | Collapse    | ID  | Packer/Hanger           |          |        |             |  |  |  |  |
|                  | 10'             | 5,664'   | 8EUE     | 2-7/8"   | 6.5#       | J-55         | 2.347"       | 7,260            | 7,680       | 2.441"  | Tubing Anchor Set @     | 5,565"   |        |             |  |  |  |  |
|                  |                 |  |          |          |            |              |              |                  |             |   | Seating Nipple @ 5,599' |          |        |             |  |  |  |  |
| ROD<br>DETAIL    | Component       |  |          | Top      | Bottom     | Size         | Grade        | Length           | Count       | Pump  |                         |          |        |             |  |  |  |  |
|                  | Polish Rod      |  |          | 0'       | 30'        | 1 1/2"       | Spray Metal  | 30'              | 1           | Insert Pump: 2.5 Max ID x 1.75 Plunger RHAC @ 5,592'. 4' Spray Metal plunger 0.003. |                         |          |        |             |  |  |  |  |
|                  | Pony Rod        |  |          | 30'      | 32'        | 7/8"         | Tenaris D78  | 2'               | 1           |   |                         |          |        |             |  |  |  |  |
|                  | Pony Rod        |  |          | 32'      | 36'        | 7/8"         | Tenaris D78  | 4'               | 1           |   |                         |          |        |             |  |  |  |  |
|                  | Pony Rod        |  |          | 36'      | 42'        | 7/8"         | Tenaris D78  | 6'               | 1           |   |                         |          |        |             |  |  |  |  |
|                  | 4per Guided Rod |  |          | 42'      | 1,792'     | 7/8"         | Tenaris D78  | 1,750'           | 70          |   |                         |          |        |             |  |  |  |  |
|                  | 4per Guided Rod |  |          | 1,792'   | 4,892'     | 3/4"         | Tenaris D78  | 3,100'           | 124         |   |                         |          |        |             |  |  |  |  |
|                  | 8per Guided Rod |  |          | 4,892'   | 5,592'     | 7/8"         | Tenaris D78  | 700'             | 28          |   |                         |          |        |             |  |  |  |  |
|                  |                 |  |          |          |            |              |              |                  |             |   |                         |          |        |             |  |  |  |  |
| Stage            | Top             | Bottom   | SPF      | Gun Size | Date       | Frac Summary |              |                  |             |   |                         |          |        |             |  |  |  |  |
| 5                | 4,156'          | 4,159'   | 3        | 9'       | 10/18/2012 | Formation:   | GB-6         | GB-4             |             |   |                         |          |        |             |  |  |  |  |
|                  | 4,205'          | 4,207'   | 3        | 6'       | 10/18/2012 | 20/40 White: | 27,047 lbs   | 15% HCl:         | 0 gals      |   |                         |          |        |             |  |  |  |  |
|                  | 0'              | 0'   | 3        | 0'       | -          | Pad:         | 2,965 gals   | Treating Fluid:  | 6,665 gals  |   |                         |          |        |             |  |  |  |  |
|                  | 0'              | 0'   | 3        | 0'       | -          | Flush:       | 4,561 gals   | Load to Recover: | 14,191 gals |   |                         |          |        |             |  |  |  |  |
|                  | 0'              | 0'   | 3        | 0'       | -          | ISIP=        | 0.882 psi/ft | Max STP:         | 3,099 psi   |   |                         |          |        |             |  |  |  |  |
|                  | 0'              | 0'   | 3        | 0'       | -          |              |              |                  |             |   |                         |          |        |             |  |  |  |  |
| 4                | 4,330'          | 4,332'   | 3        | 6'       | 10/18/2012 | Formation:   | PB-10        | PB-8             |             |   |                         |          |        |             |  |  |  |  |
|                  | 4,400'          | 4,402'   | 3        | 6'       | 10/18/2012 | 20/40 White: | 37,380 lbs   | 15% HCl:         | 252 gals    |   |                         |          |        |             |  |  |  |  |
|                  | 4,414'          | 4,416'   | 3        | 6'       | 10/18/2012 | Pad:         | 3,406 gals   | Treating Fluid:  | 8,816 gals  |   |                         |          |        |             |  |  |  |  |
|                  | 0'              | 0'   | 3        | 0'       | -          | Flush:       | 4,309 gals   | Load to Recover: | 16,783 gals |   |                         |          |        |             |  |  |  |  |
|                  | 0'              | 0'   | 3        | 0'       | -          | ISIP=        | 1.044 psi/ft | Max STP:         | 3,874 psi   |   |                         |          |        |             |  |  |  |  |
|                  | 0'              | 0'   | 3        | 0'       | -          |              |              |                  |             |   |                         |          |        |             |  |  |  |  |
| 3                | 4,584'          | 4,586'   | 3        | 6'       | 10/17/2012 | Formation:   | C-Sand       | DS-1             |             |   |                         |          |        |             |  |  |  |  |
|                  | 4,859'          | 4,861'   | 3        | 6'       | 10/17/2012 | 20/40 White: | 64,788 lbs   | 15% HCl:         | 252 gals    |   |                         |          |        |             |  |  |  |  |
|                  | 4,869'          | 4,872'   | 3        | 9'       | 10/17/2012 | Pad:         | 3,826 gals   | Treating Fluid:  | 16,190 gals |   |                         |          |        |             |  |  |  |  |
|                  | 0'              | 0'   | 3        | 0'       | -          | Flush:       | 4,448 gals   | Load to Recover: | 24,716 gals |   |                         |          |        |             |  |  |  |  |
|                  | 0'              | 0'   | 3        | 0'       | -          | ISIP=        | 0.884 psi/ft | Max STP:         | 3,142 psi   |   |                         |          |        |             |  |  |  |  |
|                  | 0'              | 0'   | 3        | 0'       | -          |              |              |                  |             |   |                         |          |        |             |  |  |  |  |
| 2                | 5,017'          | 5,019'   | 3        | 6'       | 10/17/2012 | Formation:   | A-3          | A-1              | B-1         |   |                         |          |        |             |  |  |  |  |
|                  | 5,021'          | 5,022'   | 3        | 3'       | 10/17/2012 | 20/40 White: | 53,183 lbs   | 15% HCl:         | 252 gals    |   |                         |          |        |             |  |  |  |  |
|                  | 5,139'          | 5,140'   | 3        | 3'       | 10/17/2012 | Pad:         | 3,284 gals   | Treating Fluid:  | 13,019 gals |   |                         |          |        |             |  |  |  |  |
|                  | 5,147'          | 5,149'   | 3        | 6'       | 10/17/2012 | Flush:       | 5,498 gals   | Load to Recover: | 22,053 gals |   |                         |          |        |             |  |  |  |  |
|                  | 5,180'          | 5,181'   | 3        | 3'       | 10/17/2012 | ISIP=        | - psi/ft     | Max STP:         | 2,986 psi   |   |                         |          |        |             |  |  |  |  |
|                  | 0'              | 0'   | 3        | 0'       | -          |              |              |                  |             |   |                         |          |        |             |  |  |  |  |
| 1                | 5,562'          | 5,564'   | 3        | 6'       | 10/16/2012 | Formation:   | CP-1         | CP-Half          |             |   |                         |          |        |             |  |  |  |  |
|                  | 5,605'          | 5,609'   | 3        | 12'      | 10/16/2012 | 20/40 White: | 27,492 lbs   | 15% HCl:         |             |   |                         |          |        | 378 gals    |  |  |  |  |
|                  | 0'              | 0'   | 3        | 0'       | -          | Pad:         | 2,747 gals   | Treating Fluid:  |             |   |                         |          |        | 7,060 gals  |  |  |  |  |
|                  | 0'              | 0'   | 3        | 0'       | -          | Flush:       | 5,431 gals   | Load to Recover: |             |   |                         |          |        | 15,616 gals |  |  |  |  |
|                  | 0'              | 0'   | 3        | 0'       | -          | ISIP=        | 0.794 psi/ft | Max STP:         |             |   |                         |          |        | 3,191 psi   |  |  |  |  |
|                  | 0'              | 0'   | 3        | 0'       | -          |              |              |                  |             |   |                         |          |        |             |  |  |  |  |
| CEMENT           | Surf            | On 9/21/12 Baker cemented 8 5/8" casing w/ 160 sks Class "G" + 2% KCl + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.17 yield and returned 5 bbls to the pit. |          |          |            |              |              |                  |             |   |                         |          |        |             |  |  |  |  |
|                  | Prod            | On 9/29/12 Baker pumped 222 sks lead @ 11 ppg w/ 3.53 yield plus 448 sks tail @ 14.4 ppg w/ 1.24 yield. TOC @ 90'                                      |          |          |            |              |              |                  |             |   |                         |          |        |             |  |  |  |  |



5-1/2" Shoe @ 6,227'

PBTD @ 6,183'

TVD @ 6,061'

BHST = 190°F

**NEWFIELD**
**GMBU R-12-9-16**  
 Monument Butte - Duchesne County, Utah, USA

Surface Legal Location: SW/SE - Sec 12, T9S, R16E; 432' FSL &amp; 2385' FEL

Elevation: 5503' GL + 10' KB

APW: 43-013-51154; Lease#: UTU-035521

Paul Lambcke

DLB 5/2/13

Spud Date: 1/30/13; PoP Date: 3/8/13

|                  |                 |  |          |        |          |              |              |        |          |  |                            |          |        |
|------------------|-----------------|--|----------|--------|----------|--------------|--------------|--------|----------|--|----------------------------|----------|--------|
| CASING<br>DETAIL | Casing          | Top  | Bottom   | Size   | Wt       | Grade        | Drift        | Burst  | Collapse | ID   | gal/ft                     | Coupling | Hole   |
|                  | Surf            | 10'  | 321'     | 8.625  | 24#      | J-55         | 7.972"       | 2,950  | 1,370    | 8.097"   | 2.6749                     | STC      | 12.250 |
|                  | Prod            | 10'  | 6,268'   | 5.500  | 15.5#    | J-55         | 4.825"       | 4,810  | 4,040    | 4.950"   | 0.9997                     | LTC      | 7.875  |
| TBG<br>DETAIL    | Top             | Bottom   | Coupling | Size   | Wt       | Grade        | Drift        | Burst  | Collapse | ID   | Packer/Hanger              |          |        |
|                  | 10'             | 5,708'   | 8EUE     | 2-7/8" | 6.5#     | J-55         | 2.347"       | 7,260  | 7,680    | 2.441"   | Tubing Anchor Set @ 5,610' |          |        |
|                  |                 |  |          |        |          |              |              |        |          |  |                            |          |        |
| ROD<br>DETAIL    | Component       |  |          | Top    | Bottom   | Size         | Grade        | Length | Count    | Pump   |                            |          |        |
|                  | Polish Rod      |  |          | 0'     | 30'      | 1 1/2"       | Spray Metal  | 30     | 1        | Insert Pump: 2.5 Max ID x 1.75 Plunger RHAC @ 5,642' |                            |          |        |
|                  | Pony Rod        |  |          | 30'    | 32'      | 7/8"         | Tenaris D78  | 2      | 1        |  |                            |          |        |
|                  | Pony Rod        |  |          | 32'    | 36'      | 7/8"         | Tenaris D78  | 4      | 1        |  |                            |          |        |
|                  | Pony Rod        |  |          | 36'    | 42'      | 7/8"         | Tenaris D78  | 6      | 1        |  |                            |          |        |
|                  | 4per Guided Rod |  |          | 42'    | 1,942'   | 7/8"         | Tenaris D78  | 1900   | 76       |  |                            |          |        |
|                  | 4per Guided Rod |  |          | 1,942' | 4,942'   | 3/4"         | Tenaris D78  | 3000   | 120      |  |                            |          |        |
|                  | 8per Guided Rod |  |          | 4,942' | 5,642'   | 7/8"         | Tenaris D78  | 700    | 28       |  |                            |          |        |
| Stage            | Top             | Bottom   | SPF      | EHD    | Date     | Frac Summary |              |        |          |  |                            |          |        |
| 4                | 4,448'          | 4,450'   | 3        | 0.34   | 3/5/2013 | Formation:   | PB10         |        |          | 7% KCL   |                            |          |        |
|                  | 4,465'          | 4,468'   | 3        | 0.34   | 3/5/2013 | 20/40 White: | 72,960 lbs   |        |          | 15% HCl:   | 0 gals                     |          |        |
|                  |                 |  |          |        |          | Pad:         | 6,686 gals   |        |          | Treating Fluid:                                      | 17,418 gals                |          |        |
|                  |                 |  |          |        |          | Flush:       | 4,469 gals   |        |          | Load to Recover:                                     | 28,573 gals                |          |        |
|                  |                 |  |          |        |          | ISIP=        | 0.913 psi/ft |        |          | Max STP:   | 2,640 psi                  |          |        |
| 3                | 4,877'          | 4,879'   | 3        | 0.34   | 3/5/2013 | Formation:   | C-Sand D3    |        |          | 7% KCL   |                            |          |        |
|                  | 4,907'          | 4,908'   | 3        | 0.34   | 3/5/2013 | 20/40 White: | 61,970 lbs   |        |          | 15% HCl:   | 252 gals                   |          |        |
|                  | 4,912'          | 4,914'   | 3        | 0.34   | 3/5/2013 | Pad:         | 4,561 gals   |        |          | Treating Fluid:                                      | 14,379 gals                |          |        |
|                  |                 |  |          |        |          | Flush:       | 4,855 gals   |        |          | Load to Recover:                                     | 24,047 gals                |          |        |
|                  |                 |  |          |        |          | ISIP=        | 0.834 psi/ft |        |          | Max STP:   | 3,130 psi                  |          |        |
| 2                | 5,195'          | 5,196'   | 3        | 0.34   | 3/5/2013 | Formation:   | A3 A1        |        |          | 7% KCL   |                            |          |        |
|                  | 5,224'          | 5,225'   | 3        | 0.34   | 3/5/2013 | 20/40 White: | 113,114 lbs  |        |          | 15% HCl:   | 252 gals                   |          |        |
|                  | 5,236'          | 5,238'   | 3        | 0.34   | 3/5/2013 | Pad:         | 5,943 gals   |        |          | Treating Fluid:                                      | 26,242 gals                |          |        |
|                  | 5,243'          | 5,244'   | 3        | 0.34   | 3/5/2013 | Flush:       | 5,288 gals   |        |          | Load to Recover:                                     | 37,725 gals                |          |        |
|                  | 5,247'          | 5,248'   | 3        | 0.34   | 3/5/2013 | ISIP=        | 0.850 psi/ft |        |          | Max STP:   | 2,882 psi                  |          |        |
| 1                | 5,253'          | 5,254'   | 3        | 0.34   | 3/5/2013 |              |              |        |          |  |                            |          |        |
|                  | 5,604'          | 5,606'   | 3        | 0.34   | 3/5/2013 | Formation:   | CP1 CP-Half  |        |          | 7% KCL   |                            |          |        |
|                  | 5,638'          | 5,640'   | 3        | 0.34   | 3/5/2013 | 20/40 White: | 46,718 lbs   |        |          | 15% HCl:   | 378 gals                   |          |        |
|                  | 5,652'          | 5,654'   | 3        | 0.34   | 3/5/2013 | Pad:         | 6,783 gals   |        |          | Treating Fluid:                                      | 10,910 gals                |          |        |
|                  |                 |  |          |        |          | Flush:       | 5,603 gals   |        |          | Load to Recover:                                     | 23,548 gals                |          |        |
| CEM              | Surf            | On 1/30/13 Pro Petro cemented 8 5/8" casing w/ 165 sks Class "G" + 2% KCl + 0.25#/sk Cello Flake at 15.8 ppg w/ 1.15 yield and returned 4 bbls to the pit. |          |        |          |              |              |        |          |  |                            |          |        |
|                  | Prod            | On 2/17/13 Halliburton pumped 265 sks lead @ 11 ppg w/ 2.71 yield plus 460 sks tail @ 14.4 ppg w/ 1.3 yield. Returned 35 bbls to the pit. TOC @ 1014'.     |          |        |          |              |              |        |          |  |                            |          |        |

8-5/8"Shoe @ 321'

8-5/8" Shoe @ 321'

 EOT @ 5708'; TA @ 5610'  
 5-1/2" Shoe @ 6268'  
 PBTD @ 6223'  
 TVD @ 6136'  
 BHST = 190°F

## Greater Monument Butte S-11-9-16

Spud Date: 12/4/10  
Put on Production: 1/5/11  
GL: 5612' KB: 5624'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (297.17')  
DEPTH LANDED: 307.02'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 146 jts. (6188.29')  
HOLE SIZE: 7-7/8"  
DEPTH LANDED: 6244.55'  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 316'

#### TUBING

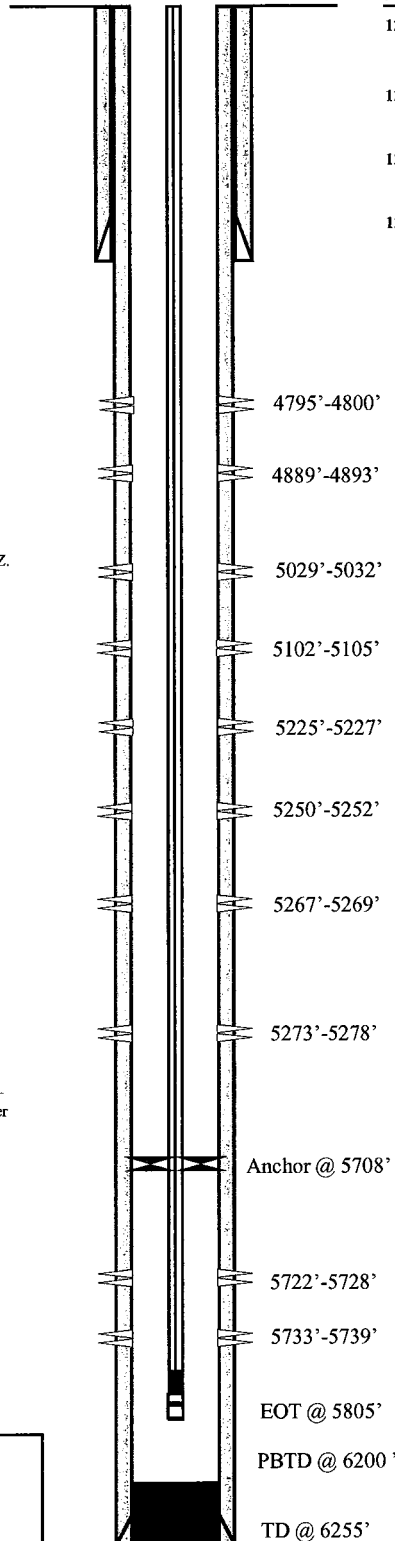
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 184 jts (5697.5')  
TUBING ANCHOR: 5707.5'  
NO. OF JOINTS: 1 jts (30.0')  
SEATING NIPPLE: 2-7/8" (1.1')  
SN LANDED AT: 5740.3' KB  
NO. OF JOINTS: 2 jts (62.9')  
TOTAL STRING LENGTH: EOT @ 5805'

#### SUCKER RODS

POLISHED ROD: 1-1/2" x 30'  
SUCKER RODS: 1 - 7/8" = 2' pony rods; 1 - 7/8" = 4' pony rods; 1 - 7/8" = 6' pony rods; 1 - 7/8" = 8' pony rods; 223 - 7/8" = 5575' 8 per guided rods; 4 - 1 1/2" = 100' weight bars  
PUMP SIZE: 2 1/2 x 1 3/4 x 20' x 24' RHAC  
STROKE LENGTH: 144  
PUMP SPEED: 5 SPM

#### FRAC JOB

|          |               |   |
|----------|---------------|---|
| 12/27/10 | 5722' - 5739' | <b>Frac CP2 sands as follows:</b><br>Frac with 50,456# 20/40 sand in 309 bbls<br>Lightning 17 fluid.          |
| 12/28/10 | 5225' - 5278' | <b>Frac A1 &amp; A3 sands as follows:</b><br>Frac with 35,079# 20/40 sand in 232 bbls<br>Lightning 17 fluid.  |
| 12/28/10 | 5029' - 5105' | <b>Frac B.5 &amp; B2 sands as follows:</b><br>Frac with 15,052# 20/40 sand in 135 bbls<br>Lightning 17 fluid. |
| 12/28/10 | 4795' - 4893' | <b>Frac D1 &amp; D2 sands as follows:</b><br>Frac with 39,227# 20/40 sand in 240 bbls<br>Lightning 17 fluid.  |



#### PERFORATION RECORD

|             |        |          |
|-------------|--------|----------|
| 5733'-5739' | 3 JSPF | 18 holes |
| 5722'-5728' | 3 JSPF | 18 holes |
| 5273'-5278' | 3 JSPF | 15 holes |
| 5267'-5269' | 3 JSPF | 6 holes  |
| 5250'-5252' | 3 JSPF | 6 holes  |
| 5225'-5227' | 3 JSPF | 6 holes  |
| 5102'-5105' | 3 JSPF | 9 holes  |
| 5029'-5032' | 3 JSPF | 9 holes  |
| 4889'-4893' | 3 JSPF | 12 holes |
| 4795'-4800' | 3 JSPF | 15 holes |



#### Greater Monument Butte S-11-9-16

1992' FSL & 2015' FEL (NW/SE)

Section 11, T9S, R16E

Duchesne Co, Utah

API # 43-013-50279; Lease # UTU-096550



## Balcron Monument Federal 24-12J-9-16

Spud Date: 11/8/93  
Put on Production: 12/30/93  
GL: 5495' KB: 5505'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 6jts. (271.28')  
DEPTH LANDED: 279'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 150 sxs Class "G" cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 129 jts. (5676.22')  
HOLE SIZE: 7-7/8"  
DEPTH LANDED: 5685.22'  
CEMENT DATA: 204 sxs Prem. Lite II mixed & 215 sxs 50/50 POZ.  
CEMENT TOP AT: 279'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 172 jts (5361')  
TUBING ANCHOR: 5371.7'  
NO. OF JOINTS: 1 jts (64.2')  
SEATING NIPPLE: 2-7/8" (1.1')  
SN LANDED AT: 5438.7' KB  
NO. OF JOINTS: 2 jts (5439.8')  
TOTAL STRING LENGTH: EOT @ 5503'

#### SUCKER RODS

POLISHED ROD: 1-1/4" x 22'  
SUCKER RODS: 77- 3/4" guided rods (4 per), 114- 3/4" sucker rods, 20- 3/4" guided rods (4 per), 6- 1 1/2" weight bars  
PUMP SIZE: 2 1/2 x 1 1/2 x 16" RHAC  
STROKE LENGTH: 76  
PUMP SPEED: 4.5 SPM

#### FRAC JOB

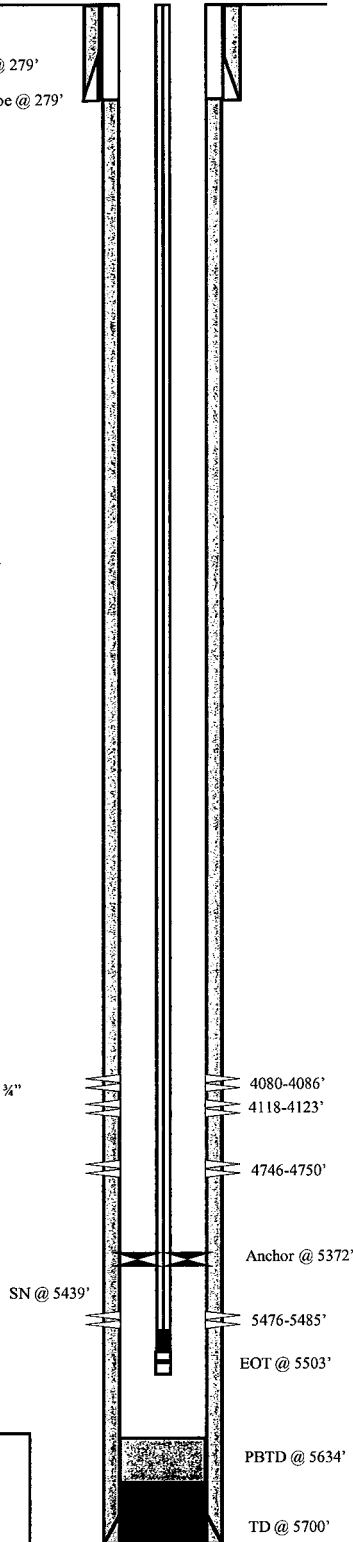
12/22/93 4080'-4123' Frac Frac sands as follows:  
with 33085 # 16-30 sand in  
500 bbls of YF155 2% KCl water.

12/17/93 4746'-4750' Frac sands as follows:  
with 13978# 16-30 sand in 247 bbls of  
YF155 2% KCl water. Screened out  
during flush. ATR 15 BPM @ 2500 psi,  
max 3350 psi. I SI P 2450 psi, 10 min --  
1488 psi, 15 min -- 1484 psi.

12/14/93 Frac sands as follows:  
Screened out -- no details available.

12/7/09 Parted rods. Updated rod and tubing  
details.

Cement Top @ 279'  
Casing Shoe @ 279'



#### PERFORATION RECORD

|             |        |          |
|-------------|--------|----------|
| 4080'-4086' | 2 JSPF | 12 holes |
| 4118'-4123' | 2 JSPF | 10 holes |
| 4746'-4750' | 2 JSPF | 8 holes  |
| 5476'-5485' | 2 JSPF | 18 holes |



**Balcron Monument Federal 24-12J-9-16**  
539' FSL & 1777' FWL  
SE/SW Section 12-T9S-R16E  
Duchesne Co, Utah  
API # 43-013-31409; Lease # U-035521-A

# Jonah Fed LA-14-9-16

Spud Date: 12/19/2008  
Put on Production: 1/27/2009  
GL: 5606' KB: 5618'

## Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (315.79')  
DEPTH LANDED: 326.79'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class 'G' cmt, circ 5 bbls to surf

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 158 jts (6047.44')  
DEPTH LANDED: 6045.44'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 280 sxs Premilite II & 415 sxs 50/50 POZ  
CEMENT TOP: 104' per CBL 1/16/09

### TUBING (KS 3/1/10)

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 162 jts (5107.3')  
TUBING ANCHOR: 5107.3' KB  
NO. OF JOINTS: 1 jt (31.6')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5141.8'  
NO. OF JOINTS: 2 jts (63.1')  
NOTCHED COLLAR: 5206'  
TOTAL STRING LENGTH: EOT @ 5206'

### SUCKER RODS (KS 3/1/10)

POLISHED ROD: 1-1/2" x 26' Polished Rod  
SUCKER RODS: 2', 6' x 7/8" Pony Rods, 201 x 7/8" 8per Guided Rods,  
4 x 1-1/2" Sinker Bars  
PUMP SIZE: 1 1/2" x 1 3/4" x 20' RHAC central hydraulic pump  
STROKE LENGTH: 124"  
PUMP SPEED, SPM: 3.0  
PUMPING UNIT: DARCO C-456-305-144

### FRAC JOB

1/20/09 5130-5142' Frac A3 sds as follows:  
49,252# 20/40 sand in 460 bbls of Lightning 17 fluid. Broke @ 2780 psi.  
Treated w/ ave pressure of 2065 psi w/ ave rate of 22.9 BPM. ISIP 2290  
psi. Actual flush: 4624 gals.

1/20/09 5020-5026' Frac A.5 sds as follows:  
24,711# 20/40 sand in 367 bbls of Lightning 17 fluid. Broke @ 4040 psi.  
Treated w/ ave pressure of 2423 psi w/ ave rate of 22.9 BPM. ISIP 2411  
psi. Actual flush: 4515 gals.

1/20/09 4809-4819' Frac C sds as follows:  
24,955# 20/40 sand in 350 bbls of Lightning 17 fluid. Broke @ 3045 psi.  
Treated w/ ave pressure of 2300 psi w/ ave rate of 23.0 BPM. ISIP 3472  
psi. Actual flush: 4221 gals.

1/20/09 4161-4170' Frac GB6 sds as follows:  
55,178# 20/40 sand in 477 bbls of Lightning 17 fluid. Broke @ 3936 psi.  
Treated w/ ave pressure of 1800 psi w/ ave rate of 23.2 BPM. ISIP 1734  
psi. Actual flush: 3738 gals.

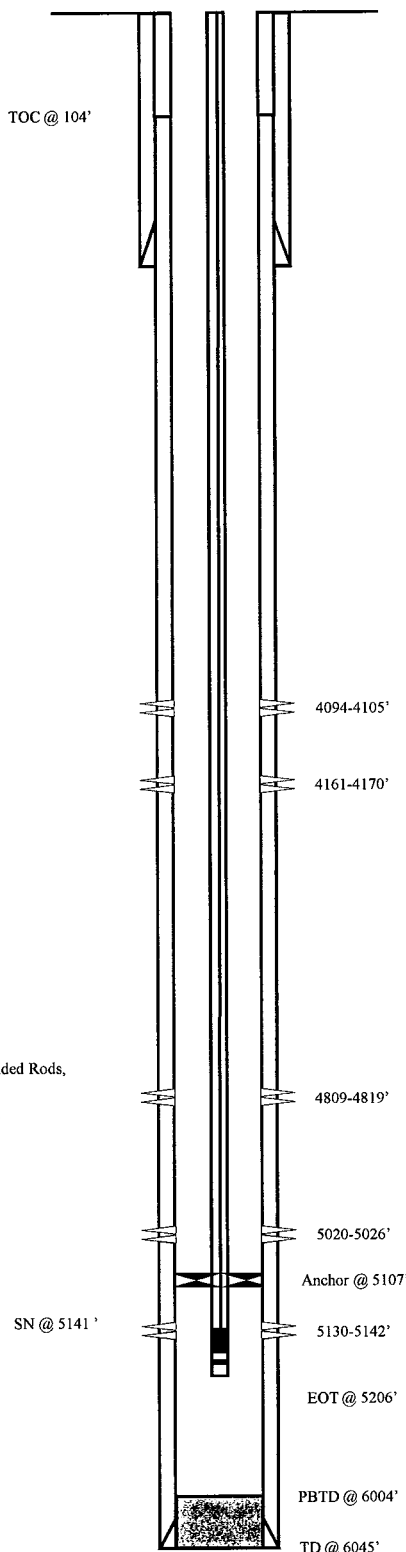
1/20/09 4094-4105' Frac GB4 sds as follows:  
69,186# 20/40 sand in 552 bbls of Lightning 17 fluid. Broke @ 2614 psi.  
Treated w/ ave pressure of 2200 psi w/ ave rate of 23.1 BPM. ISIP 1915  
psi. Actual flush: 4007 gals.

03/03/2010

Pump Maintenance. Update rod and tubing  
details.

### PERFORATION RECORD

|         |            |        |          |
|---------|------------|--------|----------|
| 1/20/09 | 4094-4105' | 4 JSPF | 44 holes |
| 1/20/09 | 4161-4170' | 4 JSPF | 36 holes |
| 1/20/09 | 4809-4819' | 4 JSPF | 40 holes |
| 1/20/09 | 5020-5026' | 4 JSPF | 24 holes |
| 1/20/09 | 5130-5142' | 4 JSPF | 48 holes |



**NEWFIELD**

**Jonah LA-14-9-16**

1906' FNL & 732' FEL

SE/NE Section 14-T9S-R16E

Duchesne Co, Utah

API # 43-013-34164 ; Lease # UTU-096550

KS 8/10/12

# GMBU 8-14T-9-16

Spud Date: 09/13/12

## Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

DEPTH LANDED: 2 jts. 80'

HOLE SIZE: 12-1/4"

### MONITOR CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 30 jts. (1220')

DEPTH LANDED: 1229.6' KB

FLOAT COLLAR @ 1186' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 250 sxs Class G 50:50:2+3%KCL+0.5%EC+0.25#CF  
mixed @ 14.4 ppg & 1.25 yield.

CEMENT TOP: 24'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 35

SEATING NIPPLE: 2-7/8" 1.1'

NOTCHED COLLAR: 2-7/8" .5'

TOTAL STRING LENGTH: EOT @ 1123' KB

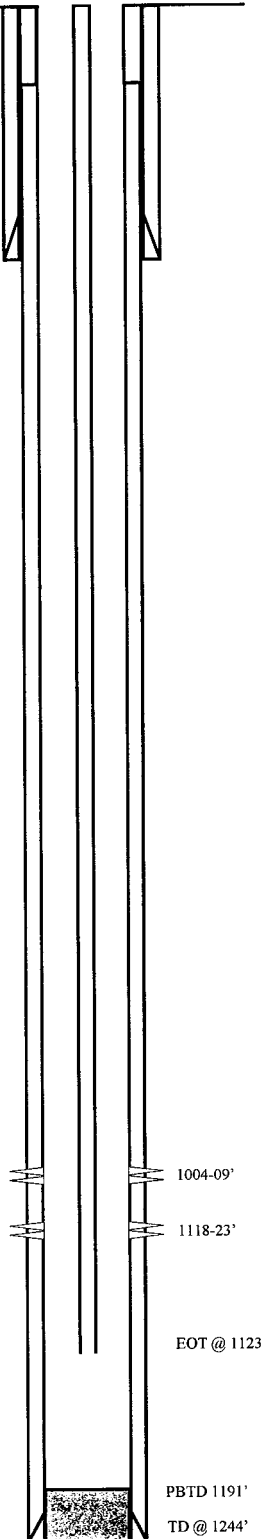
Cement Top @ 24'

### Perforation Record:

10/9/2012

1118-23' 16g, 0.34" EHD, 22" pen, 120 deg phasing, w/3spf (15 holes)

1004-09' 16g, 0.34" EHD, 22" pen, 120 deg phasing, w/3spf (15 holes)



**NEWFIELD**

**GMBU 8-14T-9-16 (Monitor Well)**

1978' FNL & 731' FEL

SENE Section 14-T9S-R16E

Duchesne Co, Utah

API #43-013-50880; Lease #UTU-096550

## Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

Units of Measurement: **Standard**

1 of 7 multi-chem®

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## Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**Well Name: **BELUGA INJECTION**Sample Point: **After Filters**Sample Date: **11/28/2012**Sample ID: **WA-228948**Sales Rep: **Michael McBride**Lab Tech: **Gary Peterson**Scaling potential predicted using ScaleSoftPitzer from  
Brine Chemistry Consortium (Rice University)

| Sample Specifics                  |           | Analysis @ Properties in Sample Specifics |         |   |         |
|-----------------------------------|-----------|---|---------|---|---------|
| Test Date:                        | 12/5/2012 | Cations                                   |         | Anions  |         |
|                                   |           | mg/L                                      |         | mg/L  |         |
| System Temperature 1 (°F):        | 120.00    | Sodium (Na):                              | 2814.83 | Chloride (Cl):  | 4000.00 |
| System Pressure 1 (psig):         | 60.0000   | Potassium (K):                            | 20.00   | Sulfate (SO <sub>4</sub> ):                             | 460.00  |
| System Temperature 2 (°F):        | 210.00    | Magnesium (Mg):                           | 47.00   | Bicarbonate (HCO <sub>3</sub> ):                        | 512.00  |
| System Pressure 2 (psig):         | 60.0000   | Calcium (Ca):                             | 79.00   | Carbonate (CO <sub>3</sub> ):                           |         |
| Calculated Density (g/ml):        | 1.003     | Strontium (Sr):                           |         | Acetic Acid (CH <sub>3</sub> COO)                       |         |
| pH:                               | 7.40      | Barium (Ba):                              | 0.14    | Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO)      |         |
| Calculated TDS (mg/L):            | 7933.86   | Iron (Fe):                                | 0.17    | Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)       |         |
| CO <sub>2</sub> in Gas (%):       |           | Zinc (Zn):                                | 0.02    | Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO) |         |
| Dissolved CO <sub>2</sub> (mg/L): | 13.00     | Lead (Pb):                                | 0.00    | Fluoride (F):   |         |
| H <sub>2</sub> S in Gas (%):      |           | Ammonia NH <sub>3</sub> :                 |         | Bromine (Br):   |         |
| H <sub>2</sub> S in Water (mg/L): | 7.00      | Manganese (Mn):                           | 0.70    | Silica (SiO <sub>2</sub> ):                             |         |

## Notes:

11:30

(PTB = Pounds per Thousand Barrels)

|           |       | Calcium Carbonate |       | Barium Sulfate |      | Iron Sulfide |      | Iron Carbonate |      | Gypsum CaSO <sub>4</sub> 2H <sub>2</sub> O |      | Celestite SrSO <sub>4</sub> |      | Halite NaCl |      | Zinc Sulfide |      |
|-----------|-------|-------------------|-------|----------------|------|--------------|------|----------------|------|--|------|-----------------------------|------|-------------|------|--------------|------|
| Temp (°F) | PSI   | SI                | PTB   | SI             | PTB  | SI           | PTB  | SI             | PTB  | SI   | PTB  | SI                          | PTB  | SI          | PTB  | SI           | PTB  |
| 210.00    | 60.00 | 0.96              | 36.46 | 0.00           | 0.00 | 1.15         | 0.09 | 0.30           | 0.06 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 7.08         | 0.01 |
| 200.00    | 60.00 | 0.89              | 33.50 | 0.00           | 0.00 | 1.11         | 0.09 | 0.22           | 0.05 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 7.13         | 0.01 |
| 190.00    | 60.00 | 0.81              | 30.53 | 0.00           | 0.00 | 1.06         | 0.08 | 0.15           | 0.04 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 7.19         | 0.01 |
| 180.00    | 60.00 | 0.73              | 27.58 | 0.00           | 0.00 | 1.03         | 0.08 | 0.07           | 0.02 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 7.25         | 0.01 |
| 170.00    | 60.00 | 0.66              | 24.68 | 0.02           | 0.00 | 0.99         | 0.08 | 0.00           | 0.00 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 7.32         | 0.01 |
| 160.00    | 60.00 | 0.59              | 21.85 | 0.05           | 0.01 | 0.97         | 0.08 | 0.00           | 0.00 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 7.40         | 0.01 |
| 150.00    | 60.00 | 0.52              | 19.12 | 0.08           | 0.01 | 0.95         | 0.08 | 0.00           | 0.00 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 7.48         | 0.01 |
| 140.00    | 60.00 | 0.45              | 16.50 | 0.12           | 0.02 | 0.93         | 0.08 | 0.00           | 0.00 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 7.57         | 0.01 |
| 130.00    | 60.00 | 0.39              | 14.02 | 0.17           | 0.03 | 0.93         | 0.08 | 0.00           | 0.00 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 7.67         | 0.01 |
| 120.00    | 60.00 | 0.33              | 11.69 | 0.23           | 0.04 | 0.93         | 0.08 | 0.00           | 0.00 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 7.79         | 0.01 |

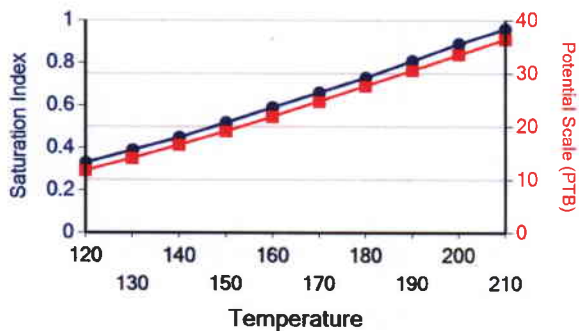
## Water Analysis Report

| Temp<br>(°F) | PSI   | Hemihydrate<br>CaSO <sub>4</sub> ·0.5H <sub>2</sub> O |      | Anhydrate<br>CaSO <sub>4</sub> |      | Calcium<br>Fluoride |      | Zinc<br>Carbonate |      | Lead<br>Sulfide |      | Mg<br>Silicate |      | Ca Mg<br>Silicate |      | Fe<br>Silicate |      |
|--------------|-------|---|------|--------------------------------|------|---------------------|------|-------------------|------|-----------------|------|----------------|------|-------------------|------|----------------|------|
|              |       | SI  | PTB  | SI                             | PTB  | SI                  | PTB  | SI                | PTB  | SI              | PTB  | SI             | PTB  | SI                | PTB  | SI             | PTB  |
| 210.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 0.00              | 0.00 | 0.00            | 0.00 | 0.00           | 0.00 | 0.00              | 0.00 | 0.00           | 0.00 |
| 200.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 0.00              | 0.00 | 0.00            | 0.00 | 0.00           | 0.00 | 0.00              | 0.00 | 0.00           | 0.00 |
| 190.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 0.00              | 0.00 | 0.00            | 0.00 | 0.00           | 0.00 | 0.00              | 0.00 | 0.00           | 0.00 |
| 180.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 0.00              | 0.00 | 0.00            | 0.00 | 0.00           | 0.00 | 0.00              | 0.00 | 0.00           | 0.00 |
| 170.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 0.00              | 0.00 | 0.00            | 0.00 | 0.00           | 0.00 | 0.00              | 0.00 | 0.00           | 0.00 |
| 160.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 0.00              | 0.00 | 0.00            | 0.00 | 0.00           | 0.00 | 0.00              | 0.00 | 0.00           | 0.00 |
| 150.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 0.00              | 0.00 | 0.00            | 0.00 | 0.00           | 0.00 | 0.00              | 0.00 | 0.00           | 0.00 |
| 140.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 0.00              | 0.00 | 0.00            | 0.00 | 0.00           | 0.00 | 0.00              | 0.00 | 0.00           | 0.00 |
| 130.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 0.00              | 0.00 | 0.00            | 0.00 | 0.00           | 0.00 | 0.00              | 0.00 | 0.00           | 0.00 |
| 120.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 0.00              | 0.00 | 0.00            | 0.00 | 0.00           | 0.00 | 0.00              | 0.00 | 0.00           | 0.00 |

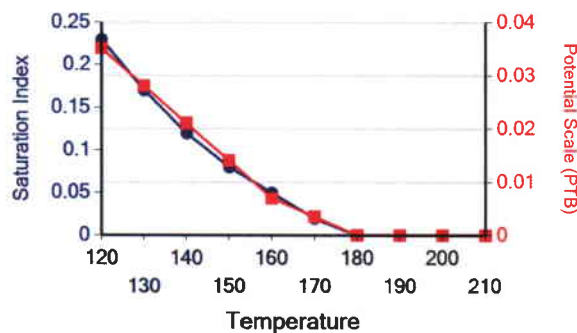
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Sulfide Iron Carbonate Zinc Sulfide

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Zinc Sulfide

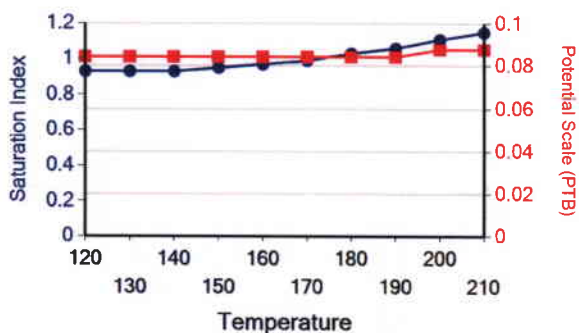
Calcium Carbonate



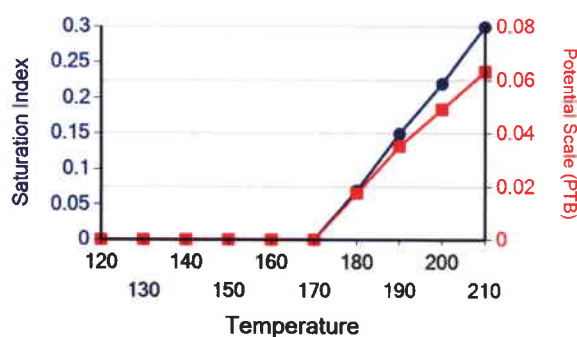
Barium Sulfate



Iron Sulfide



Iron Carbonate



Multi-Chem Analytical Laboratory

1553 East Highway 40

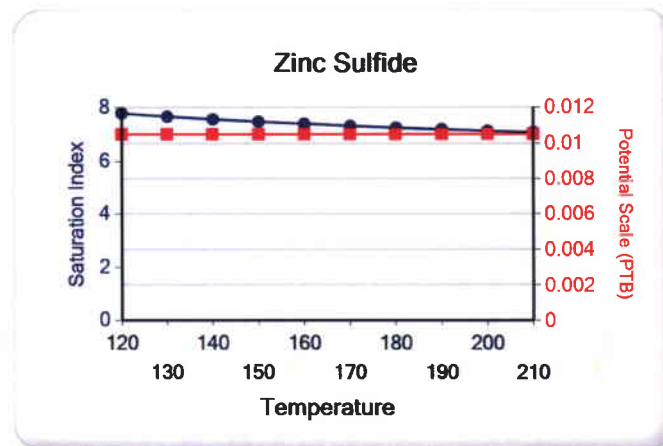
Vernal, UT 84078

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## Water Analysis Report





## Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

4 of 7

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Units of Measurement: **Standard**

## Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**Well Name: **PAN AMERICAN 1FR-9-16**Sample Point: **Treater**Sample Date: **3/11/2013**Sample ID: **WA-236951**Sales Rep: **Michael McBride**Lab Tech: **Layne Wilkerson**Scaling potential predicted using ScaleSoftPitzer from  
Brine Chemistry Consortium (Rice University)

| Sample Specifics                  |           | Analysis @ Properties in Sample Specifics |         |   |         |
|-----------------------------------|-----------|---|---------|---|---------|
| Test Date:                        | 3/20/2013 | Cations                                   | mg/L    | Anions  | mg/L    |
| System Temperature 1 (°F):        | 120.00    | Sodium (Na):                              | 6266.50 | Chloride (Cl):  | 9000.00 |
| System Pressure 1 (psig):         | 60.0000   | Potassium (K):                            | 83.00   | Sulfate (SO <sub>4</sub> ):                             | 329.00  |
| System Temperature 2 (°F):        | 210.00    | Magnesium (Mg):                           | 19.00   | Bicarbonate (HCO <sub>3</sub> ):                        | 1098.00 |
| System Pressure 2 (psig):         | 60.0000   | Calcium (Ca):                             | 33.00   | Carbonate (CO <sub>3</sub> ):                           |         |
| Calculated Density (g/ml):        | 1.009     | Strontium (Sr):                           | 5.60    | Acetic Acid (CH <sub>3</sub> COO)                       |         |
| pH:                               | 8.00      | Barium (Ba):                              | 4.70    | Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO)      |         |
| Calculated TDS (mg/L):            | 16871.60  | Iron (Fe):                                | 16.00   | Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)       |         |
| CO <sub>2</sub> in Gas (%):       |           | Zinc (Zn):                                | 0.24    | Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO) |         |
| Dissolved CO <sub>2</sub> (mg/L): | 56.00     | Lead (Pb):                                | 0.26    | Fluoride (F):   |         |
| H <sub>2</sub> S in Gas (%):      |           | Ammonia NH <sub>3</sub> :                 |         | Bromine (Br):   |         |
| H <sub>2</sub> S in Water (mg/L): | 5.00      | Manganese (Mn):                           | 0.34    | Silica (SiO <sub>2</sub> ):                             | 15.96   |

## Notes:

B=18 Al=.2

(PTB = Pounds per Thousand Barrels)

|           |       | Calcium Carbonate |       | Barium Sulfate |      | Iron Sulfide |      | Iron Carbonate |       | Gypsum CaSO <sub>4</sub> 2H <sub>2</sub> O |      | Celestite SrSO <sub>4</sub> |      | Halite NaCl |      | Zinc Sulfide |      |
|-----------|-------|-------------------|-------|----------------|------|--------------|------|----------------|-------|--|------|-----------------------------|------|-------------|------|--------------|------|
| Temp (°F) | PSI   | SI                | PTB   | SI             | PTB  | SI           | PTB  | SI             | PTB   | SI   | PTB  | SI                          | PTB  | SI          | PTB  | SI           | PTB  |
| 210.00    | 60.00 | 1.22              | 24.87 | 1.02           | 2.53 | 3.33         | 4.54 | 2.90           | 11.62 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 8.26         | 0.13 |
| 200.00    | 60.00 | 1.16              | 24.24 | 1.03           | 2.54 | 3.30         | 4.53 | 2.84           | 11.61 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 8.33         | 0.13 |
| 190.00    | 60.00 | 1.10              | 23.54 | 1.05           | 2.55 | 3.28         | 4.53 | 2.79           | 11.61 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 8.41         | 0.13 |
| 180.00    | 60.00 | 1.05              | 22.78 | 1.08           | 2.56 | 3.27         | 4.53 | 2.73           | 11.61 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 8.50         | 0.13 |
| 170.00    | 60.00 | 0.99              | 21.97 | 1.11           | 2.58 | 3.26         | 4.53 | 2.67           | 11.60 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 8.59         | 0.13 |
| 160.00    | 60.00 | 0.94              | 21.11 | 1.14           | 2.60 | 3.26         | 4.53 | 2.61           | 11.59 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 8.69         | 0.13 |
| 150.00    | 60.00 | 0.89              | 20.20 | 1.18           | 2.61 | 3.26         | 4.53 | 2.55           | 11.58 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 8.80         | 0.13 |
| 140.00    | 60.00 | 0.84              | 19.27 | 1.22           | 2.63 | 3.28         | 4.53 | 2.49           | 11.58 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 8.92         | 0.13 |
| 130.00    | 60.00 | 0.80              | 18.33 | 1.27           | 2.65 | 3.29         | 4.53 | 2.42           | 11.57 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 9.05         | 0.13 |
| 120.00    | 60.00 | 0.75              | 17.38 | 1.33           | 2.67 | 3.32         | 4.53 | 2.36           | 11.55 | 0.00                                       | 0.00 | 0.00                        | 0.00 | 0.00        | 0.00 | 9.18         | 0.13 |

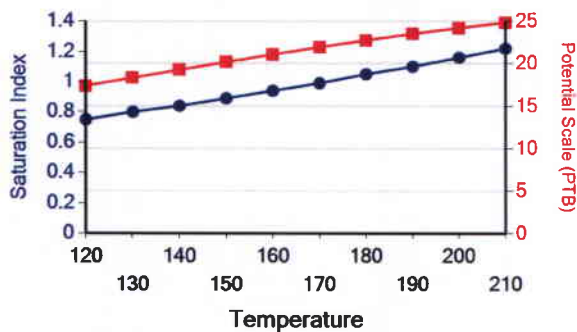
## Water Analysis Report

| Temp<br>(°F) | PSI   | Hemihydrate<br>CaSO <sub>4</sub> ·0.5H <sub>2</sub> O |      | Anhydrate<br>CaSO <sub>4</sub> |      | Calcium<br>Fluoride |      | Zinc<br>Carbonate |      | Lead<br>Sulfide |      | Mg<br>Silicate |       | Ca Mg<br>Silicate |      | Fe<br>Silicate |       |
|--------------|-------|---|------|--------------------------------|------|---------------------|------|-------------------|------|-----------------|------|----------------|-------|-------------------|------|----------------|-------|
|              |       | SI  | PTB  | SI                             | PTB  | SI                  | PTB  | SI                | PTB  | SI              | PTB  | SI             | PTB   | SI                | PTB  | SI             | PTB   |
| 210.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 1.10              | 0.15 | 9.36            | 0.11 | 4.48           | 17.22 | 1.79              | 7.20 | 10.74          | 12.42 |
| 200.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 1.01              | 0.15 | 9.50            | 0.11 | 4.01           | 16.08 | 1.52              | 6.36 | 10.40          | 12.41 |
| 190.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 0.92              | 0.14 | 9.65            | 0.11 | 3.54           | 14.63 | 1.24              | 5.39 | 10.06          | 12.40 |
| 180.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 0.83              | 0.14 | 9.81            | 0.11 | 3.06           | 12.91 | 0.96              | 4.31 | 9.71           | 12.38 |
| 170.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 0.73              | 0.13 | 9.98            | 0.11 | 2.58           | 10.99 | 0.67              | 3.14 | 9.36           | 12.36 |
| 160.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 0.62              | 0.12 | 10.17           | 0.11 | 2.09           | 8.95  | 0.39              | 1.92 | 9.02           | 12.33 |
| 150.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 0.51              | 0.11 | 10.36           | 0.11 | 1.60           | 6.85  | 0.11              | 0.68 | 8.67           | 12.28 |
| 140.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 0.40              | 0.09 | 10.57           | 0.11 | 1.11           | 4.75  | 0.00              | 0.00 | 8.33           | 12.23 |
| 130.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 0.27              | 0.07 | 10.79           | 0.11 | 0.62           | 2.68  | 0.00              | 0.00 | 7.99           | 12.15 |
| 120.00       | 60.00 | 0.00  | 0.00 | 0.00                           | 0.00 | 0.00                | 0.00 | 0.14              | 0.05 | 11.03           | 0.11 | 0.13           | 0.67  | 0.00              | 0.00 | 7.66           | 12.05 |

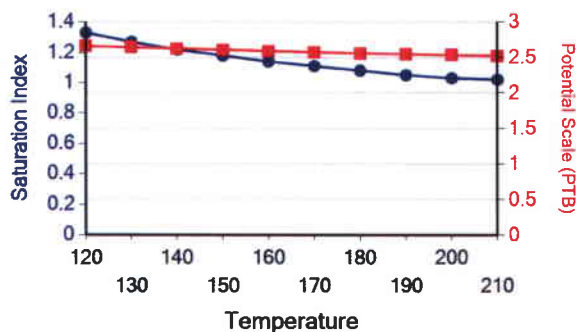
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Fe Silicate

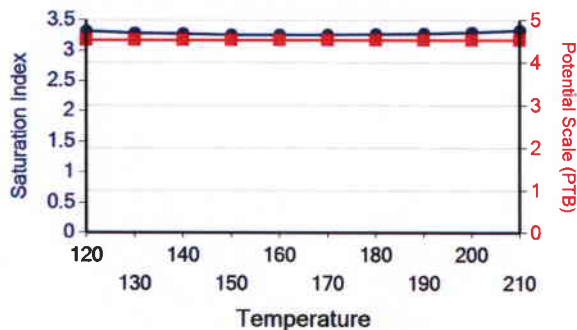
Calcium Carbonate



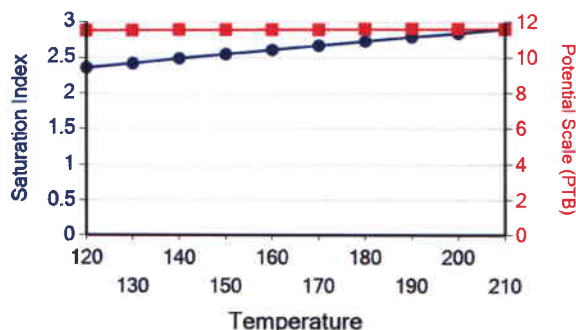
Barium Sulfate



Iron Sulfide



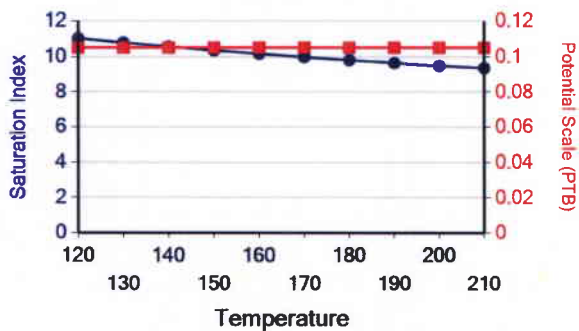
Iron Carbonate



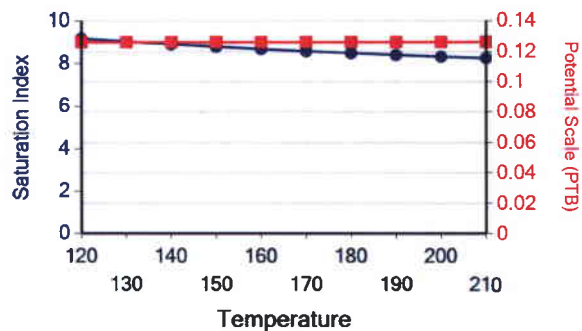


## Water Analysis Report

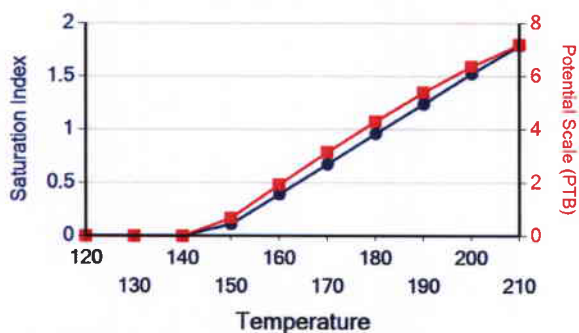
Lead Sulfide



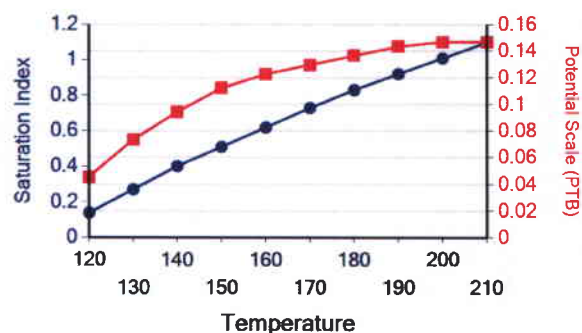
Zinc Sulfide



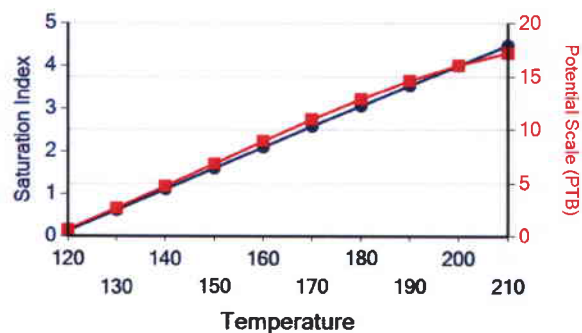
Ca Mg Silicate



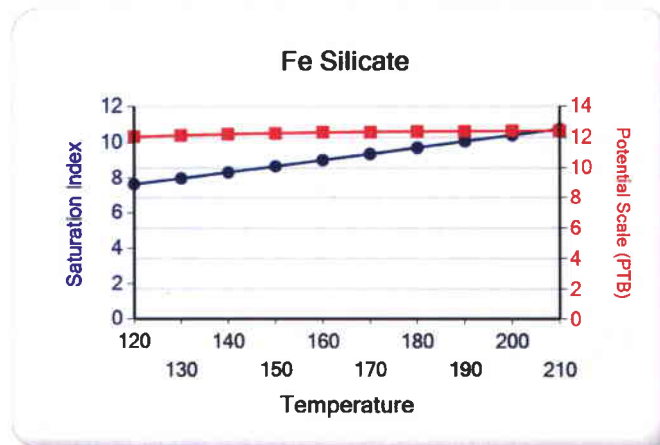
Zinc Carbonate



Mg Silicate



## Water Analysis Report



**Attachment "G"**

**Federal #1FR-13-9-16  
Proposed Maximum Injection Pressure**

| Frac Interval<br>(feet) |        | Avg. Depth<br>(feet) | ISIP<br>(psi) | Calculated<br>Frac<br>Gradient<br>(psi/ft) | Pmax        |
|-------------------------|--------|----------------------|---------------|--|-------------|
| Top                     | Bottom |                      |               |  |             |
| 5038                    | 5080   | 5059                 | 2050          | 0.84                                       | 2017        |
| 4742                    | 4750   | 4746                 | 1980          | 0.85                                       | 1949        |
| 4300                    | 4314   | 4307                 | 2060          | 0.91                                       | 2032        |
| 4044                    | 4110   | 4077                 | 1820          | 0.88                                       | 1794 ←      |
|                         |        |                      |               | <b>Minimum</b>                             | <u>1794</u> |

Calculation of Maximum Surface Injection Pressure

$P_{max} = (\text{Frac Grad} - (0.433 \times 1.015)) \times \text{Depth of Top Perf}$   
 where pressure gradient for the fresh water is .433 psi/ft and  
 specific gravity of the injected water is 1.015.

$\text{Frac Gradient} = (\text{ISIP} + (0.433 \times \text{Top Perf.})) / \text{Top Perf.}$

**Please note:** These are existing perforations; additional perforations may be added during the actual conversion procedure.

## NEWFIELD

ATTACHMENT G-1  
1 of 8

## DAILY COMPLETION REPORT

WELL NAME: Pan American 1FR-9-16 Report Date: 2-2-06 Day: 01  
 Operation: Completion Rig: Rigless

## WELL STATUS

Surf Csg: 8-5/8' @ 309' Prod Csg: 5-1/2" @ 5477' Csg PBTD: 5428'WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD:

## PERFORATION RECORD

| Zone   | Perfs      | SPF/#shots | Zone   | Perfs      | SPF/#shots |
|--------|------------|------------|--------|------------|------------|
|        |            |            | A3 sds | 5064-5080' | 4/64       |
|        |            |            |        |            |            |
|        |            |            |        |            |            |
|        |            |            |        |            |            |
| A1 sds | 5038-5046' | 4/32       |        |            |            |

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 01-Feb-06 SITP:  SICP: 0

Instal 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5428' & cement top @ 1290'. Perforate stage #1, A3 sds @ 5064-80' & A1 sds @ 5038-46' w/ 4" Port guns (19 gram, .46" HE. 120 ) w/ 4 spf for total of 96 shots. 129 bbls EWTR. SIFN.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 129 Starting oil rec to date:   
 Fluid lost/recovered today: 0 Oil lost/recovered today:   
 Ending fluid to be recovered: 129 Cum oil recovered:   
 IFL:  FFL:  FTP:  Choke:  Final Fluid Rate:  Final oil cut:

## STIMULATION DETAIL

Base Fluid used:  Job Type:

Company:

Procedure or Equipment detail:

## COSTS

Weatherford BOP

NPC NU crew

NDSI trucking

Perforators LLC

Drilling cost

Zubiate Hot Oil

Location preparation

NPC wellhead

Benco - anchors

Admin. Overhead

NPC Supervisor

Max TP:  Max Rate:  Total fluid pmpd:

Avg TP:  Avg Rate:  Total Prop pmpd:

ISIP:  5 min:  10 min:  FG:

Completion Supervisor: Ron Shuck

DAILY COST:  \$0

TOTAL WELL COST:

## NEWFIELD



ATTACHMENT G-1

2 of 8

## DAILY COMPLETION REPORT

WELL NAME: Pan American 1FR-9-16

Report Date: 2-7-06

Day: 2a

Operation: Completion

Rig: Rigless

## WELL STATUS

Surf Csg: 8-5/8' @ 309'

Prod Csg: 5-1/2" @ 5477'

Csg PBTD: 5428'WL

Tbg: Size: Wt:

Grd: Pkr/EOT @:

BP/Sand PBTD:

## PERFORATION RECORD

| Zone   | Perfs      | SPF/#shots | Zone   | Perfs      | SPF/#shots |
|--------|------------|------------|--------|------------|------------|
|        |            |            | A3 sds | 5064-5080' | 4/64       |
|        |            |            |        |            |            |
|        |            |            |        |            |            |
|        |            |            |        |            |            |
| A1 sds | 5038-5046' | 4/32       |        |            |            |

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 06-Feb-06

SITP: SICP: 690

Day2a.

RU BJ Services "Ram Head" frac flange. RU BJ & frac A sds, stage #1 down casing w/ 70,448#'s of 20/40 sand in 562 bbls of Lightning 17 frac fluid. Open well w/ 690 psi on casing. Perfs broke down @ 2152, back to 1830 psi Treated @ ave pressure of 1933 w/ ave rate of 24.9 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL in flush for next stage. ISIP was 2050. 691 bbls EWTR. Leave pressure on well. See day2b.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 129

Starting oil rec to date:

Fluid lost/recovered today: 562

Oil lost/recovered today:

Ending fluid to be recovered: 691

Cum oil recovered:

IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac

Company: BJ Services

Procedure or Equipment detail: A3 &amp; A1 sds down casing

5418 gals of pad

3625 gals w/ 5-8 ppg of 20/40 sand

7250 gals w/ 5-8 ppg of 20/40 sand

1767 gals w/ 8 ppg of 20/40 sand

504 gals of 15% HCL acid

Flush w/ 5040 gals of slick water

\*\*Flush called @ blender to include 2 bbls pump/line volume\*\*

Max TP: 2385 Max Rate: 25.3 Total fluid pmpd: 562 bbls

Avg TP: 1933 Avg Rate: 24.9 Total Prop pmpd: 70,448#'s

ISIP: 2050 5 min: 10 min: FG: .84

Completion Supervisor: Ron Shuck

## COSTS

Weatherford Services

NPC frac water

NPC fuel gas

BJ Services A sds

NPC Supervisor

DAILY COST: \$0

TOTAL WELL COST: \$0

## NEWFIELD



ATTACHMENT G-1

3 of 8

## DAILY COMPLETION REPORT

WELL NAME: Pan American 1FR-9-16 Report Date: 2-7-06 Day: 2b  
 Operation: Completion Rig: Rigless

## WELL STATUS

Surf Csg: 8-5/8' @ 309' Prod Csg: 5-1/2" @ 5477' Csg PBTD: 5428'WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD: 4900'

## PERFORATION RECORD

| Zone   | Perfs      | SPF/#shots | Zone   | Perfs      | SPF/#shots |
|--------|------------|------------|--------|------------|------------|
|        |            |            | A3 sds | 5064-5080' | 4/64       |
|        |            |            |        |            |            |
|        |            |            |        |            |            |
| C sds  | 4742-4750' | 4/32       |        |            |            |
| A1 sds | 5038-5046' | 4/32       |        |            |            |

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 06-Feb-06 SITP: SICP: 1100

Day2b.

RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" composite flow through frac plug & 8' perf gun Set plug @ 4900'. Perforate C sds @ 4742-50' w/ 3-1/8" Slick Guns ( 23 gram, .43"HE, 90 ) w/ 4 spf for total of 32 shots. RU BJ & frac stage #2 w/ 34,710#'s of 20/40 sand in 390 bbls of Lightning 17 frac fluid. Open well w/ 1100 ps on casing. Perfs broke down @ 3275, back to 1980 psi. Treated @ ave pressure of 1978 w/ ave rate of 24.8 bpm w/ 6.5 ppg of sand. Spot 12 bbls of 15% HCL in flush for next stage. ISIP was 1980. 1081 bbls EWTR. Leave pressure on well. See day2C.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 691 Starting oil rec to date:   
 Fluid lost/recovered today: 390 Oil lost/recovered today:   
 Ending fluid to be recovered: 1081 Cum oil recovered:   
 IFL:  FFL:  FTP:  Choke:  Final Fluid Rate:  Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services

Procedure or Equipment detail: C sds down casing

3318 gals of pad

2431 gals w/ 1-4 ppg of 20/40 sand

4890 gals w/ 4-6.5 ppg of 20/40 sand

491 gals w/ 6.5 ppg of 20/40 sand

504 gals of 15% HCL acid

Flush w/ 4746 gals of slick water

\*\*Flush called @ blender to include 2 bbls pump/line volume\*\*

Max TP: 2125 Max Rate: 25.2 Total fluid pmpd: 390 bbls

Avg TP: 1978 Avg Rate: 24.8 Total Prop pmpd: 34,710#'s

ISIP: 1980 5 min:  10 min:  FG: .85

Completion Supervisor: Ron Shuck

## COSTS

Weatherford Services   
 NPC frac water   
 NPC fuel gas   
 BJ Services C sds   
 NPC Supervisor   
 Lone Wolf C sds

DAILY COST: \$0

TOTAL WELL COST: \$0



## DAILY COMPLETION REPORT

WELL NAME: Pan American 1FR-9-16 Report Date: 2-7-06 Day: 2c  
 Operation: Completion Rig: Rigless

## WELL STATUS

Surf Csg: 8-5/8' @ 309' Prod Csg: 5-1/2" @ 5477' Csg PBTD: 5428'WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD: 4440'  
 Plug 4900'

## PERFORATION RECORD

| Zone     | Perfs      | SPF/#shots | Zone   | Perfs      | SPF/#shots |
|----------|------------|------------|--------|------------|------------|
|          |            |            | A3 sds | 5064-5080' | 4/64       |
| PB10 sds | 4300-4314' | 4/56       |        |            |            |
| C sds    | 4742-4750' | 4/32       |        |            |            |
| A1 sds   | 5038-5046' | 4/32       |        |            |            |

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 06-Feb-06 SITP: SICP: 1440

Day2c.

RU WLT. RIH w/ frac plug & 14' perf gun. Set plug @ 4440'. Perforate PB10 sds @ 4300-14' w/ 4 spf for total of 56 shots. RU BJ & frac stage #3 w/ 35,142#'s of 20/40 sand in 348 bbls of Lightning 17 frac fluid. Open well w/ 1440 ps on casing. Perfs broke down @ 1580, back to 1460 psi. Treated @ ave pressure of 1820 w/ ave rate of 24.8 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL in flush for next stage. ISIP was 2060. 1429 bbls EWTR. Leave pressure or well. See day2d.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1081 Starting oil rec to date:   
 Fluid lost/recovered today: 348 Oil lost/recovered today:   
 Ending fluid to be recovered: 1429 Cum oil recovered:   
 IFL:  FFL:  FTP:  Choke:  Final Fluid Rate:  Final oil cut:

## STIMULATION DETAIL

## COSTS

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services

Procedure or Equipment detail: C sds down casing

3402 gals of pad

2194 gals w/ 1-5 ppg of 20/40 sand

4190 gals w/ 5-8 ppg of 20/40 sand

504 gals of 15% HCL acid

Flush w/ 4326 gals of slick water

Weatherford Services

NPC frac water

NPC fuel gas

BJ Services PB10 sd

NPC Supervisor

Lone Wolf PB10 sds

\*\*Flush called @ blender to include 2 bbls pump/line volume\*\*

Max TP: 1965 Max Rate: 25.2 Total fluid pmpd: 348 bbls

Avg TP: 1820 Avg Rate: 24.8 Total Prop pmpd: 35,142#'s

ISIP: 2060 5 min:  10 min:  FG: .91

Completion Supervisor: Ron Shuck

DAILY COST: \$0

TOTAL WELL COST: \$0



## DAILY COMPLETION REPORT

WELL NAME: Pan American 1FR-9-16 Report Date: 2-7-06 Day: 2d  
 Operation: Completion Rig: Rigless

## WELL STATUS

Surf Csg: 8-5/8' @ 309' Prod Csg: 5-1/2" @ 5477' Csg PBTD: 5428'WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD: 4220'  
 Plug 4900' 4440'

## PERFORATION RECORD

| Zone     | Perfs      | SPF/#shots | Zone   | Perfs      | SPF/#shots |
|----------|------------|------------|--------|------------|------------|
| GB6 sds  | 4044-4066' | 4/88       | A3 sds | 5064-5080' | 4/64       |
| GB6 sds  | 4094-4098' | 4/16       |        |            |            |
| GB6 sds  | 4104-4110' | 4/24       |        |            |            |
| PB10 sds | 4300-4314' | 4/56       |        |            |            |
| C sds    | 4742-4750' | 4/32       |        |            |            |
| A1 sds   | 5038-5046' | 4/32       |        |            |            |

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 06-Feb-06 SITP: SICP: 1440

Day2d.

RU WLT. RIH w/ frac plug & 6' & 4' perf gun. Set plug @ 4220'. Perforate GB6 sds @ 4104-10', 4094-98', 4044-66' w/ 4 spf for total of 128 shots. RU BJ & frac stage #4 w/ 67,736#'s of 20/40 sand in 511 bbls of Lightning 17 frac fluid Open well w/ 1390 psi on casing. Perfs broke down @ 2479, back to 1600 psi. Treated @ ave pressure of 1805 w, ave rate of 24.9 bpm w/ 8 ppg of sand. ISIP was 1820. 1940 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 3 hours & died w/ 220 bbls rec'd. SIFN.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1940 Starting oil rec to date:   
 Fluid lost/recovered today: 220 Oil lost/recovered today:   
 Ending fluid to be recovered: 1720 Cum oil recovered:   
 IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services

Procedure or Equipment detail: GB6 sds down casing

5418 gals of pad

3625 gals w/ 1-5 ppg of 20/40 sand

7250 gals w/ 5-8 ppg of 20/40 sand

1263 gals w/ 8 ppg of 20/40 sand

Flush w/ 3906 gals of slick water

## COSTS

|                      |          |
|----------------------|----------|
| Weatherford Services | \$2,200  |
| NPC frac water       | \$990    |
| NPC fuel gas         | \$198    |
| BJ Services GB6 sds  | \$17,256 |
| NPC Supervisor       | \$75     |
| Lone Wolf GB6 sds    | \$5,380  |
| NPC water transfer   | \$500    |

Max TP: 1450 Max Rate: 25.2 Total fluid pmpd: 511 bbls

Avg TP: 1805 Avg Rate: 24.9 Total Prop pmpd: 67,736#'s

ISIP: 1628 5 min: 10 min: FG: .88

Completion Supervisor: Ron Shuck

DAILY COST: \$26,599

TOTAL WELL COST: \$26,599





## DAILY COMPLETION REPORT

WELL NAME: Pan American 1FR-9-16Report Date: Feb. 8, 2006Day: 03Operation: CompletionRig: NC #1

## WELL STATUS

Surf Csg: 8-5/8' @ 309' Prod Csg: 5-1/2" @ 5477' Csg PBTD: 5428'WL  
 Tbg: Size: 2 7/8 Wt: 6.5# Grd: J-55 Pkr/EOT @: 3983' BP/Sand PBTD: 4220'  
 Plug 4900' 4440'

## PERFORATION RECORD

| Zone     | Perfs      | SPF/#shots | Zone   | Perfs      | SPF/#shots |
|----------|------------|------------|--------|------------|------------|
| GB6 sds  | 4044-4066' | 4/88       | A3 sds | 5064-5080' | 4/64       |
| GB6 sds  | 4094-4098' | 4/16       |        |            |            |
| GB6 sds  | 4104-4110' | 4/24       |        |            |            |
| PB10 sds | 4300-4314' | 4/56       |        |            |            |
| C sds    | 4742-4750' | 4/32       |        |            |            |
| A1 sds   | 5038-5046' | 4/32       |        |            |            |

## CHRONOLOGICAL OPERATIONS

Date Work Performed: Feb. 7, 2006SITP:            SICP: 125

MIRU NC #1. Thaw wellhead & BOP W/ HO truck. Bleed pressure off well. Rec est 15 BTF. ND Cameron BOP & 5M frac head. Install 3M production tbg head & NU Weatherford Schaeffer BOP. Talley, drift, PU & TIH W/ usec Weatherford 4 3/4" "chomp" bit, bit sub & new 2 7/8 8rd 6.5# J-55 tbg. Tag fill @ 4067'. Tbg displaced est 10 BTF or TIH. Pull EOT to 3983'. RU drlg equipment. SIFN W/ est 1695 BWTR.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1720 Starting oil rec to date:             
 Fluid lost/recovered today: 25 Oil lost/recovered today:             
 Ending fluid to be recovered: 1695 Cum oil recovered:             
 IFL:            FFL:            FTP:            Choke:            Final Fluid Rate:            Final oil cut:           

## STIMULATION DETAIL

Base Fluid used:            Job Type:           Company:           

Procedure or Equipment detail:

Max TP:            Max Rate:            Total fluid pmpd:           Avg TP:            Avg Rate:            Total Prop pmpd:           ISIP:            5 min:            10 min:            FG:           Completion Supervisor: Gary Dietz

## COSTS

NC #1 rig  
Weatherford BOP  
NPC trucking  
NDSI trucking  
NDSI wtr & truck  
Unichem chemicals  
Zubiate HO truck  
Aztec - new J55 tbg  
NPC sfc equipment  
R & T labor/welding  
Mt. West sanitation  
Monks pit reclaim  
NPC supervision

DAILY COST:            \$0TOTAL WELL COST:



## DAILY COMPLETION REPORT

WELL NAME: Pan American 1FR-9-16Report Date: Feb. 9, 2006Day: 04Operation: CompletionRig: NC #1

## WELL STATUS

Surf Csg: 8-5/8' @ 309' Prod Csg: 5-1/2" @ 5477' Csg PBTD: 5434'  
 Tbg: Size: 2 7/8 Wt: 6.5# Grd: J-55 Pkr/EOT @: 5383' BP/Sand PBTD: 5434'

## PERFORATION RECORD

| Zone     | Perfs      | SPF/#shots | Zone   | Perfs      | SPF/#shots |
|----------|------------|------------|--------|------------|------------|
| GB6 sds  | 4044-4066' | 4/88       | A3 sds | 5064-5080' | 4/64       |
| GB6 sds  | 4094-4098' | 4/16       |        |            |            |
| GB6 sds  | 4104-4110' | 4/24       |        |            |            |
| PB10 sds | 4300-4314' | 4/56       |        |            |            |
| C sds    | 4742-4750' | 4/32       |        |            |            |
| A1 sds   | 5038-5046' | 4/32       |        |            |            |

## CHRONOLOGICAL OPERATIONS

Date Work Performed: Feb. 8, 2006SITP: 50 SICP: 50

Thaw wellhead, BOP & tbg stump W/ HO truck. Bleed pressure off well. Rec est 5 BTF. TIH W/ bit & tbg f/ 3983' Tag fill @ 4067'. RU power swivel. C/O sd & drill out composite bridge plugs as follows (using conventiona circulation): sd @ 4067', plug @ 4220' in 30 minutes; sd @ 4380', plug @ 4440' in 40 minutes; sd @ 4800', plug @ 4900' in 27 minutes. Con't swivelling jts in hole. Tag fill @ 5339'. Drill plug remains & sd to PBTD @ 5434'. Circ hole clean. Lost est 80 BW during cleanout. RD swivel. Pull EOT to 5383'. RU swab equipment. IFL @ sfc. Made 11 swb runs rec 127 BTF W/ light gas, tr oil & light tr sd. FFL @ 1000'. FOC @ 2%. SIFN W/ est 1643 BWTR.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1695 Starting oil rec to date: \_\_\_\_\_  
 Fluid lost/recovered today: 52 Oil lost/recovered today: \_\_\_\_\_  
 Ending fluid to be recovered: 1643 Cum oil recovered: \_\_\_\_\_  
 IFL: sfc FFL: 1000' FTP: \_\_\_\_\_ Choke: \_\_\_\_\_ Final Fluid Rate: \_\_\_\_\_ Final oil cut: 2%

## STIMULATION DETAIL

Base Fluid used: \_\_\_\_\_ Job Type: \_\_\_\_\_

Company: \_\_\_\_\_

Procedure or Equipment detail:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## COSTS

NC #1 rig \_\_\_\_\_  
 Weatherford BOP \_\_\_\_\_  
 Zubiate HO truck \_\_\_\_\_  
 Weatherford swivel \_\_\_\_\_  
 NPC location cleanup \_\_\_\_\_  
 NDSI wtr disposal \_\_\_\_\_  
 CDI TA \_\_\_\_\_  
 CDI SN \_\_\_\_\_  
 NPC supervision \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Max TP: \_\_\_\_\_ Max Rate: \_\_\_\_\_ Total fluid pmpd: \_\_\_\_\_

Avg TP: \_\_\_\_\_ Avg Rate: \_\_\_\_\_ Total Prop pmpd: \_\_\_\_\_

ISIP: \_\_\_\_\_ 5 min: \_\_\_\_\_ 10 min: \_\_\_\_\_ FG: \_\_\_\_\_

Completion Supervisor: Gary Dietz

DAILY COST: \_\_\_\_\_ \$0

TOTAL WELL COST: \_\_\_\_\_ \$0



**Day: 05**

**Rig: NC #1**

|           |                    |     |             |           |               |           |              |               |              |
|-----------|--------------------|-----|-------------|-----------|---------------|-----------|--------------|---------------|--------------|
| Surf Csg: | <u>8-5/8'</u>      | @   | <u>309'</u> | Prod Csg: | <u>5-1/2"</u> | @         | <u>5477'</u> | Csg PBDT:     | <u>5434'</u> |
| Tbg:      | Size: <u>2 7/8</u> | Wt: | <u>6.5#</u> | Grd:      | <u>J-55</u>   | Anchor @: | <u>5007'</u> | BP/Sand PBDT: | <u>5434'</u> |

| <u>Zone</u> | <u>Perfs</u> | <u>SPF/#shots</u> | <u>Zone</u> | <u>Perfs</u> | <u>SPF/#shots</u> |
|-------------|--------------|-------------------|-------------|--------------|-------------------|
| GB6 sds     | 4044-4066'   | 4/88              | A3 sds      | 5064-5080'   | 4/64              |
| GB6 sds     | 4094-4098'   | 4/16              |             |              |                   |
| GB6 sds     | 4104-4110'   | 4/24              |             |              |                   |
| PB10 sds    | 4300-4314'   | 4/56              |             |              |                   |
| C sds       | 4742-4750'   | 4/32              |             |              |                   |
| A1 sds      | 5038-5046'   | 4/32              |             |              |                   |

**SITP: 75      SICP: 50**

## FINAL REPORT!!

|   |      |                                       |                   |
|---|------|---------------------------------------|-------------------|
| Starting fluid load to be recovered:    | 1643 | Starting oil rec to date:             | 0                 |
| Fluid <del>lost</del> /recovered today: | 50   | Oil <del>lost</del> /recovered today: | 5                 |
| Ending fluid to be recovered:           | 1693 | Cum oil recovered:                    | 5                 |
| IFL: 700' FFL: 1500' FTP:               |      | Choke:                                | Final Fluid Rate: |
|   |      |                                       | Final oil cut:2%  |

## **COSTS**

|     |                           |                                   |                       |  |
|-----|---------------------------|-----------------------------------|-----------------------|--|
|     |                           |                                   | NC #1 rig             |  |
| KB  | 12.00'                    | 1 1/2" X 22' polished rod         | Weatherford BOP       |  |
| 157 | 2 7/8 J-55 tbg (4995.27') | 1-8',1-6',1-4',1-2' X 3/4" ponies | D & M HO truck        |  |
|     | TA (2.80' @ 5007.27' KB)  | 99-3/4" scraped rods              | NPC trucking          |  |
| 3   | 2 7/8 J-55 tbg (96.02')   | 88-3/4" plain rods                | CDI rod pump          |  |
|     | SN (1.10' @ 5106.09' KB)  | 10-3/4" scraped rods              | "A" grade rod string  |  |
| 2   | 2 7/8 J-55 tbg (62.92')   | 6-1 1/2" weight rods              | NPC frac tks(5X5 dys) |  |
|     | 2 7/8 NC (.45')           | CDI 2 1/2" X 1 1/2" X 14'         | NPC swb tk (3 days)   |  |
| EOT | 5170.56' W/ 12' KB        | RHAC pump W/ SM plunger           | NPC frac head         |  |
|     |                           |                                   | NPC supervision       |  |

**TOTAL WELL COST: \$0**

## ATTACHMENT H

### WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 3994'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 175' balance plug using 21 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4. Plug #3 120' balance plug using 14sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Perforate 4 JSPF @ 359'
6. Plug #4 Circulate 103 sx Class "G" cement down 5 ½" and up the 5 ½" x 8 5/8" annulus

The approximate cost to plug and abandon this well is \$42,000.

## Pan American #1FR-9-16

Spud Date: 1/5/06  
 Put on Production: 2/9/06  
 GL: 5529' KB: 5541'

Initial Production: BOPD,  
 MCFD, BWPD

Proposed P & A  
Wellbore DiagramSURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 DEPTH LANDED: 309'  
 HOLE SIZE: 12 1/4"  
 CEMENT DATA: 230 sxs cement.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 132 jts. (5479.96')  
 DEPTH LANDED: 5477.96' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 500 sxs 50/50 POZ.  
 CEMENT TOP AT: 1290'

Cement Top @ 1290'

Circulate 103 sx Class "G" Cement down 5-1/2" casing and  
 up the 5 1/4" x 8 5/8" annulus

Perforate 4 JSPF @ 359'

120' balance plug using 14 sx Class "G" cement 60'  
 above Uinta/Green River and extending 60' below  
 (1365'-1455')

175' balance plug using 21 sx Class "G" cement 50'  
 above Trona-Bird's Nest extending 50' below base of  
 Mahogany Oil Shale (2715'-2890')

100' (12 sx) Class G Cement plug on top of CIBP

CIBP @ 3994'

4044'-4066'

4094'-4098'

4104'-4110'

4300'-4314'

4742'-4750'

5038'-5046'

5064'-5080'

PBTB @ 5434'

TD @ 6000'

**NEWFIELD****Pan American #1FR-9-16**

663' FNL &amp; 663' FWL

NW/NW Section 13-T9S-R16E

Duchesne Co, Utah

API #43-013-10822; Lease #UTU-75039

JL 3/6/2013

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-409

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 8, 9, 13, and 29, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 17<sup>th</sup> Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:

Federal 8-8-9-16 well located in SE/4 NE/4, Section 8, Township 9 South, Range 16 East  
API 43-013-33057

Federal 6-9-9-16 well located in SE/4 NW/4, Section 9, Township 9 South, Range 16 East  
API 43-013-32957

Pan American #1FR-9-16 well located in NW/4 NW/4, Section 13, Township 9 South, Range 16 East  
API 43-013-10822

Federal 4-29-9-16 well located in NE/4 NW/4, Section 29, Township 9 South, Range 16 East  
API 43-013-33469

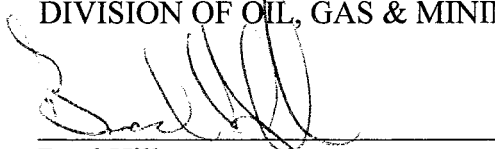
The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 14<sup>th</sup> day of May, 2013.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

  
\_\_\_\_\_  
Brad Hill  
Permitting Manager

**Newfield Production Company**

**FEDERAL 8-8-9-16, FEDERAL 6-9-9-16,  
PAN AMERICAN #1FR-9-16, FEDERAL 4-29-9-16**

**Cause No. UIC-409**

Publication Notices were sent to the following:

Newfield Production Company  
1001 17th Street, Suite 2000  
Denver, CO 80202

Duchesne County Planning  
P O Box 317  
Duchesne, UT 84021-0317

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066  
via e-mail [ubs@ubstandard.com](mailto:ubs@ubstandard.com)

Bruce Suchomel  
US EPA Region 8  
MS 8P-W-GW  
1595 Wynkoop Street  
Denver, CO 80202-1129

Salt Lake Tribune  
P O Box 45838  
Salt Lake City, UT 84145  
via e-mail [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

Vernal Office  
Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078

  
\_\_\_\_\_



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

May 14, 2013

Via e-mail: [legals@ubstandard.com](mailto:legals@ubstandard.com)

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-409

To whom it may concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: [jsweet@utah.gov](mailto:jsweet@utah.gov).

Please send proof of publication and billing to:

Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure





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## Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-409

---

**Cindy Kleinfelter** <classifieds@ubstandard.com>

Thu, May 16, 2013 at 2:15 PM

To: Jean Sweet <jsweet@utah.gov>

On 5/14/2013 1:49 PM, Jean Sweet wrote:

To whom it may concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing to:

Division of Oil, Gas and Mining

PO Box 145801

Salt Lake City, UT 84114-5801

Sincerely,

--

Jean Sweet  
Executive Secretary  
Utah Division of Oil, Gas and Mining  
801-538-5329

It will be published May 21, 2013.

Thanks

Cindy



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

May 13, 2013

VIA E-MAIL [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

Salt Lake Tribune  
P. O. Box 45838  
Salt Lake City, UT 84145

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-409

To whom it may concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: [jsweet@utah.gov](mailto:jsweet@utah.gov).

Please send proof of publication and billing for **account #9001402352** to:

Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure



---

## Proof for Notice

---

**Stowe, Ken** <naclegal@mediaoneutah.com>  
Reply-To: "Stowe, Ken" <naclegal@mediaoneutah.com>  
To: JSWEET@utah.gov

Wed, May 15, 2013 at 12:35 PM

AD# 879997  
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| <b>Client Phone</b> | 801-538-5340  | <b>Payor Phone</b>    | 801-538-5340   |
| <b>Account#</b>     | 9001402352  | <b>Payor Account</b>  | 9001402352   |
| <b>Address</b>      | 1594 W NORTH TEMP #1210,P.O. BOX 145801<br>SALT LAKE CITY, UT 84114 USA | <b>Payor Address</b>  | 1594 W NORTH TEMP #1210,P.O. BOX<br>SALT LAKE CITY, UT 84114 |
| <b>Fax</b>          | 801-359-3940  | <b>Ordered By</b>     | <b>Acct. Exec</b>  |
| <b>EMail</b>        | juliecarter@utah.gov  | Jean                  | kstowe   |

|                            |                 |                    |                  |                   |
|----------------------------|-----------------|--------------------|------------------|-------------------|
| <b>Total Amount</b>        | <b>\$220.04</b> |                    |                  |                   |
| <b>Payment Amt</b>         | <b>\$0.00</b>   |                    |                  |                   |
| <b>Amount Due</b>          | <b>\$220.04</b> | <b>Tear Sheets</b> | <b>Proofs</b>    | <b>Affidavits</b> |
|                            |                 | 0                  | 0                | 1                 |
| <b>Payment Method</b>      |                 | <b>PO Number</b>   | Cause No UIC-409 |                   |
| <b>Confirmation Notes:</b> |                 |                    |                  |                   |
| <b>Text:</b>               | Jean            |                    |                  |                   |

|                |                |              |
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| Salt Lake Tribune::       | Legal Liner Notice - 0998 | Public Meeting/Hear-ing Notices |
| <b>Scheduled Date(s):</b> | 5/17/2013                 |                                 |
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| <b>Scheduled Date(s):</b> | 5/17/2013                 |                                 |
| <b>Product</b>            | <b>Placement</b>          | <b>Position</b>                 |
| utahlegals.com::          | utahlegals.com            | utahlegals.com                  |
| <b>Scheduled Date(s):</b> | 5/17/2013                 |                                 |

### Ad Content Proof Actual Size

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-409

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 8, 9, 13, and 29, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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API 43-013-33057  
Federal 6-9-9-16 well located in SE/4 NW/4, Section 9, Township 9 South, Range 16 East  
API 43-013-32957  
Par American #1 FR-9-16 well located in NW/4 NW/4, Section 13, Township 9 South, Range 16 East  
API 43-013-10822  
Federal 4-29-9-16 well located in NE/4 NW/4, Section 29, Township 9 South, Range 16 East  
API 43-013-33469

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Greer River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 14th day of May, 2013.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

/s/  
Brad Hill  
Permitting Manager  
879997

UPAXLP

4770 S. 5600 W.  
P.O. BOX 704005  
WEST VALLEY CITY, UTAH 84170  
FED. TAX I.D.# 87-0217663  
801-204-6910

The Salt Lake Tribune

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Deseret News

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|  |                           |
|--|---------------------------|
| ACCOUNT NAME   |                           |
| DIV OF OIL-GAS & MINING  |                           |
| TELEPHONE  | ADORDER# / INVOICE NUMBER |
| 8015385340   | 0000879997 /              |
| SCHEDULE   |                           |
| Start 05/17/2013   | End 05/17/2013            |
| CUST. REF. NO.   |                           |
| Cause No UIC-409   |                           |
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| BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES |                           |
| SIZE   |                           |
| 64 Lines   | 2.00 COLUMN               |
| TIMES  | RATE                      |
| 4  |                           |
| MISC. CHARGES  | AD. CHARGES               |
|  |                           |
| TOTAL COST   |                           |
| 220.04   |                           |

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-409

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API 43-013-32957  
Pan American #178-9-16 well located in NW/4 NW/4, Section 13, Township 9 South, Range 16 East  
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API 43-013-33469

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Dated this 14th day of May, 2013.

STATE OF UTAH

DIVISION OF OIL, GAS & MINING

/s/

Brad Hill

Permitting Manager

879997

UPAX/P

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH LEGAL BOOKER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF **BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH NOTICE OF AGENCY ACTION CAUSE NO. UIC-409 IN THE MATTER OF THE APPLICATION FOR DIV OF OIL-GAS & MINING**, WAS PUBLISHED BY THE NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION DATE AND REMAINS ON UTAHLEGALS.COM INDEFINITELY

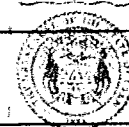
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PUBLISHED ON

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5/17/2013



VIRGINIA CRAFT

Notary Public, State of Utah

Commission # 581469

My Commission Expires

January 13, 2014

Virginia Craft

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# AFFIDAVIT OF PUBLICATION

County of Duchesne,  
STATE OF UTAH

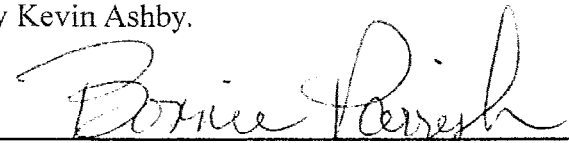
I, Kevin Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 21 day of May, 20 13, and that the last publication of such notice was in the issue of such newspaper dated the 21 day of May, 20 13, and that said notice was published on Utahlegals.com on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the end of the scheduled run.

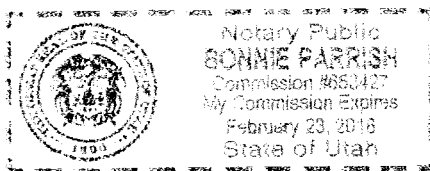
  
\_\_\_\_\_  
Publisher

Subscribed and sworn to before me on this

22 day of May, 20 13

by Kevin Ashby.

  
\_\_\_\_\_  
Notary Public



## NOTICE OF AGENCY ACTION CAUSE NO. UIC-409

BEFORE THE DIVISION OF OIL, GAS AND MINING, DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF NEW-FIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 8, 9, 13, and 29, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an in-

formal adjudicative proceeding to consider the application of New-field Production Company, 1001 17th Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:

Federal 8-8-9-16 well located in SE/4 NE/4, Section 8, Township 9 South, Range 16 East

API 43-013-33057

Federal 6-9-9-16 well located in SE/4 NW/4, Section 9, Township 9 South, Range 16 East

API 43-013-32957

Pan American #1FR-9-16 well located in NW/4 NW/4, Section 13, Township 9 South, Range 16 East

API 43-013-10822

Federal 4-29-9-16 well located in NE/4 NW/4, Section 29, Township 9 South, Range 16 East

API 43-013-33469

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection

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**DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM  
PERMIT  
STATEMENT OF BASIS**

**Applicant:** Newfield Production Company      **Well:** Pan American #1FR-9-16

**Location:** 13/9S/16E      **API:** 43-013-10822

**Ownership Issues:** The proposed well is located on BLM land. The well is located in the Greater Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM. The Federal Government is the mineral owner within the area of review (AOR). Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and lease holders in the half-mile radius. Newfield is the operator of the Greater Monument Butte Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

**Well Integrity:** The proposed well has surface casing set at 309 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,478 feet. The cement bond log is somewhat problematic but appears to demonstrate adequate bond in this well up to about 3,540 feet or higher. A 2 7/8 inch tubing with a packer is proposed at 3,994 feet, but it will need to be moved downward to comply with the approved injection interval. A mechanical integrity test will be run on the well prior to injection. (Update 2/26/2014: A hole in the casing was found between 1882-1892 feet depth. The problem was resolved by using a concentric string packer system. This system has two strings of tubing, one (1.9") inside the other (2 7/8"). It also has two packers set below the hole in casing so that the 2 7/8" X 1.9" tubing annulus can continuously test below the hole to confirm there is no communication between the injection zones and the hole in casing. Injection is into the 1.9" tubing.) Based on surface locations (revised to 11/19/2013), there are 10 producing wells, 7 injection wells, 2 P/A wells, 2 shut-in wells, 1 temporarily abandoned well, and 1 groundwater monitoring well in the AOR. Two of the producing wells are directionally drilled, with surface locations inside the AOR and bottom hole locations outside the AOR. In addition, there are 2 directionally drilled producing wells with surface locations outside the AOR and bottom hole locations inside the AOR. Finally, there are 2 permitted surface locations outside the AOR for wells to be directionally drilled to bottom hole locations inside the AOR and 1 surface location outside the AOR from a directional well will be drilled to a bottom hole location inside the AOR. Most of the existing wells have evidence of adequate casing and cement for the proposed injection interval. However, the Federal 21-13Y-9-16 well (API# 43-013-31400), located approximately 0.2 mile east of the Pan American #1FR well, appears to have a questionable cement top for the proposed injection interval. Its CBL (8/26/1993) indicates a good cement top at about 4,565 feet. Newfield ran a new CBL (8/30/2012) for the Federal 21-13Y well. This new CBL indicates a light cement top up to about 1,100 feet. Because of the questionable quality of this light cement, it is stipulated that Newfield must regularly monitor the pressure between the surface casing and production casing in the Federal 21-13Y well. Also

problematic is the active injection well Monument Federal 41-14J (43-013-31408), located in the AOR approximately 0.25 mile west-northwest of Pan American #FR well. The CBL (12/19/1993) for the Monument Federal 41-14J well indicates a good cement top at about 4,180 feet, with likelihood of light cement above that. Because of the questionable quality of the light cement, Newfield will also be required to regularly monitor the pressure between the surface

**Pan American #1FR-9-16**

**page 2**

casing and production casing in the Monument Federal 41-14J well. The C&O Govt #1 well (API# 43-013-15111) is located in the AOR approximately 0.5 mile north of the #1FR well. The C&O Govt #1 well's original CBL (11/28/1964) shows a top of good cement at approximately 4,886 feet. In anticipation of cement remediation, Newfield ran a new CBL (6/18/2013). This log suggests that some remediation has been done since the 1964 log. The CBL indicates acceptable light cement up to about 4,100 feet and an interval of light cement between about 2,682 and 2,814 feet. DOGM accepts 2,682 feet as the top of acceptable cement in the well.

The following discussion pertains to all UIC applications for wells located within a 0.5 mile radius of the Jonah Unit 8-14-9-16 well (API# 43-013-32054). That well is located approximately 0.4 mile southwest of the Pan American #1FR well, the proposed injection well in the current application. In the process of drilling the directional well, Jonah Federal LA-14-9-16 (API# 43-013-34164) from the existing pad occupied by Jonah Unit 8-14, on 12/25/2008 Newfield accidentally intersected the existing vertical wellbore Jonah Unit 8-14 at a depth of 1,092 feet. An application for conversion of the Jonah Unit 8-14 to a UIC injection (UIC-255.1) well had been previously submitted by Inland Production Company 4/19/2000. A conversion permit was issued 6/15/2000 by DOGM, but an MIT was never done, and an injection permit was never issued. Subsequent to the well collision, which destroyed the wellbore integrity of the Jonah 8-14 well, DOGM denied further consideration of the well as a UIC injection well (memo 11/8/2010). Jonah 8-14 is currently in a temporarily abandoned status. Newfield and DOGM agreed on a plan for monitoring the situation created by the well collision. A monitor well would be drilled and perforated at depths which straddle the depth of the well collision. Casing and tubing pressure gauges would be placed on both the damaged well (Jonah 8-14) and the monitor well. Any changes in pressure or fluid level will be reported immediately to DOGM. In addition, water samples will be taken from each well annually. The monitor well, GMBU 8-14T-9-16 (API# 43-013-50880) was completed 10/10/2012, located approximately 90 feet south-southeast of Jonah 8-14.

**Ground Water Protection:** As interpreted from the Utah Geological Survey's DOE Project-Uinta Basin Water Draft Map (Paul B. Anderson, December 2, 2011), the base of moderately saline water (3000-10,000 mg/l TDS) is at a depth of approximately 1800 feet. Injection shall be limited to the interval between 3,874 feet and 5,434 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the #1FR-9-16 well is 0.88 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,794 psig. The requested maximum pressure is 1,794 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in



the adjacent confining intervals. Any ground water present should be adequately protected. Additionally, it will be required to monitor pressure, fluid levels, and water quality in the intersected well, Jonah Unit 8-14, and the monitor well, GMBU 8-14T-9-16, as described in the **Well Integrity** section above.

**Pan American #1FR-9-16**  
**page 3**

**Oil/Gas& Other Mineral Resources Protection:** The Board of Oil, Gas & Mining approved the Greater Monument Butte Unit on December 1, 2009. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

**Bonding:** Bonded with the BLM

**Actions Taken and Further Approvals Needed:** A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Mark Reinbold Date: 6/28/13 (rev. 7/19/13, 11/20/13, 2/26/13)



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

July 25, 2013

Newfield Production Company  
1001 Seventeenth Street, Suite 2000  
Denver, CO 80202

Subject: Greater Monument Butte Unit Well: Pan American #1FR-9-16, Section 13, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-10822

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
3. A casing\tubing pressure test shall be conducted prior to commencing injection.
4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
5. Water levels, as well as casing and tubing pressures, in both the monitor well, GMBU 8-14T-9-16 (43-013-50880) and the damaged well, Jonah Unit 8-14-9-16 (43-013-32054) shall be checked and recorded on a regular basis. Also, water samples from both wells will be collected and analyzed annually. Any observed changes shall be reported to the Division immediately.
6. Because the cement tops are problematic in the Federal 21-13Y well (43-013-31400) and the Monument Federal 41-14J well (41-013-31408), pressure between the surface casing and the production casing in these wells shall be monitored on a regular basis. Any observed pressure changes shall be reported to the Division immediately.
7. The top of the injection interval shall be limited to a depth no higher than 3,874 feet in the Pan American #1FR-9-16 well.



July 25, 2013

Newfield - Pan American #1FR-9-16

Page 2

A final approval to commence injection will be issued upon satisfactory completion of the listed stipulations. If you have any questions regarding this approval or the necessary requirements, please contact Mark Reinbold at 801-538-5333 or Brad Hill at 801-538-5315.

Sincerely,

A handwritten signature in black ink, appearing to read "John Rogers". The signature is fluid and cursive, with the first name "John" and last name "Rogers" clearly distinguishable.

John Rogers  
Associate Director

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
Duchesne County  
Newfield Production Company, Myton  
Well File

N:\O&G Reviewed Docs\ChronFile\UIC





Mark Reinbold <markreinbold@utah.gov>

---

## Fwd: Concentric String Tool for Hole in Casing

3 messages

---

**Dustin Doucet** <dustindoucet@utah.gov>  
To: Mark Reinbold <markreinbold@utah.gov>

Thu, Oct 31, 2013 at 8:46 AM

----- Forwarded message -----

From: **Mickey Moulton** <mmoulton@newfield.com>  
Date: Wed, Oct 30, 2013 at 10:03 AM  
Subject: Concentric String Tool for Hole in Casing  
To: "dustindoucet@utah.gov" <dustindoucet@utah.gov>

Dustin,

I'm working the conversion of the Pan American 1FR 9-16 (43013-10-822) and we have a hole in casing between 1882' and 1892'. I'd like to run a concentric string tool that will enable us to isolate, test casing integrity through an annulus from surface, and inject below a standard injection packer. When looking at the drawing attached, it helps to visualize the inner (1.9") string moved over to the right on the page so that the sealing chevrons are immediately below the perforated sub. That way, with the upper packer below the hole in casing, we can test and even hold pressure on the casing below the hole to confirm no leaks / losses between the injection packer and hole isolation packer. This is the same setup we ran on the Mon 22-12J-9-16 (43013-15-796) with success. We think it's a great tool, and has proven successful in the past.

If you would like to discuss the well, please give me a call.

Thank you,

**Mickey Moulton**

**Production Engineer**  
Office: 303-382-4487

Mobile: 303-330-7165



--

Dustin K. Doucet  
Petroleum Engineer  
Division of Oil, Gas and Mining  
1594 West North Temple, Ste 1210  
Salt Lake City, Utah 84116  
801.538.5281 (ofc)  
801.359.3940 (fax)

web: [www.ogm.utah.gov](http://www.ogm.utah.gov)

 **Concentric Injection System.pdf**  
237K

---

**Dustin Doucet** <dustindoucet@utah.gov>

Thu, Oct 31, 2013 at 8:51 AM

To: Mickey Moulton <mmoulton@newfield.com>, Bradley Hill <bradhill@utah.gov>, Mark Reinbold <markreinbold@utah.gov>

Mickey,

O.K. with the proposal, but please submit request via sundry notice so we have it in the record. Thanks.

Dustin

[Quoted text hidden]

---

**Dustin Doucet** <dustindoucet@utah.gov>

Wed, Nov 6, 2013 at 3:36 PM

To: Mark Reinbold <markreinbold@utah.gov>

----- Forwarded message -----

From: **Mickey Moulton** <mmoulton@newfield.com>

Date: Wed, Oct 30, 2013 at 10:03 AM

Subject: Concentric String Tool for Hole in Casing

To: "dustindoucet@utah.gov" <dustindoucet@utah.gov>

Dustin,

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If you would like to discuss the well, please give me a call.

Thank you,

**Mickey Moulton**

**Production Engineer**

Office: 303-382-4487

Mobile: 303-330-7165



--

Dustin K. Doucet  
Petroleum Engineer  
Division of Oil, Gas and Mining  
1594 West North Temple, Ste 1210  
Salt Lake City, Utah 84116  
801.538.5281 (ofc)  
801.359.3940 (fax)

web: [www.ogm.utah.gov](http://www.ogm.utah.gov)



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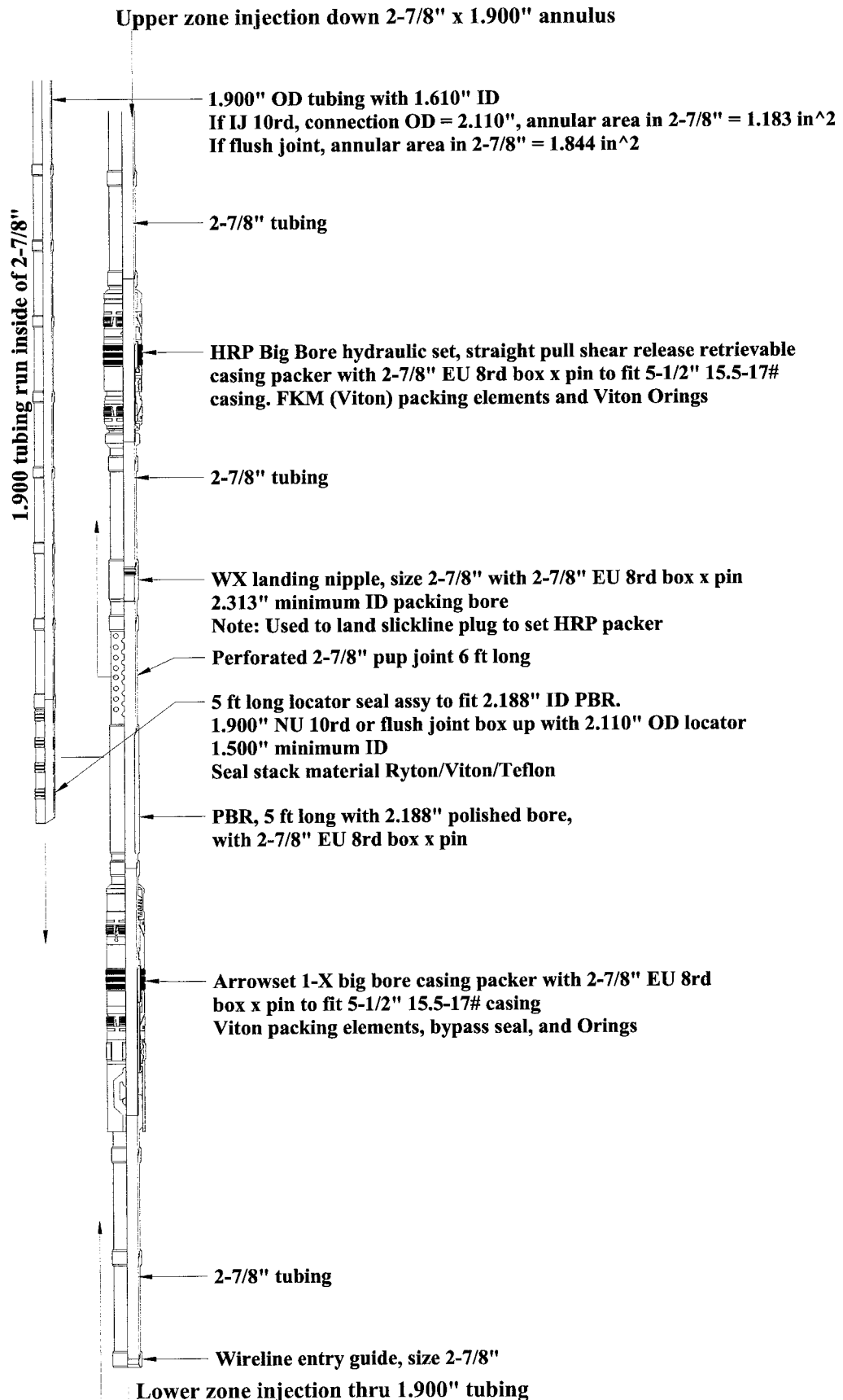


# Weatherford

Completion & Production Systems

Newfield Exploration Co.  
Uintah Basin Concentric Injection System  
Prepared For: Mr. Paul Weddle  
Prepared By: Scott Williamson  
Date Prepared: 10-15-10

Note: All elastomers suitable for HCl/Chlorine dioxide exposure  
Note: Minimum ID = 1.500" for passage of 1-3/8" OD RAT







GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-409

**Operator:** Newfield Production Company  
**Well:** Pan American #1FR-9-16  
**Location:** Section 13, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-10822  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on July 25 2013.
2. Maximum Allowable Injection Pressure: 1,794 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (3,874' – 5,434')
5. Water levels, as well as casing and tubing pressures, in both the monitor well, GMBU 8-14T-9-16 (43-013-50880) and the damaged well, Jonah Unit 8-14-9-16 (43-013-32054) shall be checked and recorded on a regular basis. Also, water samples from both wells will be collected and analyzed annually. Any observed changes shall be reported to the Division immediately.
6. Because the cement tops are problematic in the Federal 21-13Y well (43-013-31400) and the Monument Federal 41-14J well (41-013-31408), pressure between the surface casing and the production casing in these wells shall be monitored on a regular basis. Any observed pressure changes shall be reported to the Division immediately.
7. Any subsequent wells drilled within a ½ mile radius of this well shall have production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

Approved by: \_\_\_\_\_

John Rogers  
Associate Director

2/10/14  
Date

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
Jill Loyle, Newfield Production Company, Denver  
Newfield Production Company, Myton  
Duchesne County  
Well File

N:\O&G Reviewed Docs\ChronFile\UIC



Spud Date: 1/5/06

Put on Production: 2/9/06

GL: 5529' KB: 5541'

## Pan American 1FR-9-16

### Injection Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

DEPTH LANDED: 309'

HOLE SIZE: 15"

CEMENT DATA: 230 sxs cement.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 132 jts. (5479.96')

DEPTH LANDED: 5477.96' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sxs Prem. Lite II mixed & 500 sxs 50/50 POZ.

CEMENT TOP AT: 1290'

#### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

TBG HANGER 2-7/8" (0.9)

NO. OF JOINTS: 60 jts (1910.6')

HRP PACKER 5-1/2 x 2-7/8 CE @ 1926'

NO. OF JOINTS: 5 jt (162.7)

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 2092.4' KB

PERFORATED PUP 2-7/8" J-55 AT: 2093.5'

PBR SUB 2-7/8" AT: 2099.7'

NO. OF JOINTS: 59 jts (1845.2')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 3949.7' KB

ARROW #1 PACKER CE AT: 3954'

RE ENTRY GUIDE AT: 3957.7'

TOTAL STRING LENGTH: EOT @ 3958.19'

#### INNER STRING

Tbg Hanger & XO 1.9" tbg

NO. OF JOINTS: 62 jt (2056')

PBR STINGER AT: 2067'

Cement Top @ 1290'

Casing Hole Between  
1882' - 1892'

Perforated Pup @ 2093'

HRP Packer @ 1926'

1.9 PBR Stinger @ 2067'

EOT 1.9 @ 2072' 11/15/13

SN Nipple @ 2092'

SN @ 3950'

Packer @ 3954'

EOT 2-7/8 @ 3958'

4044'-4066'

4094'-4098'

4104'-4110'

4300'-4314'

4742'-4750'

5038'-5046'

5064'-5080'

PBTD @ 5434'

TD @ 6000'

#### FRAC JOB

2/6/06 5038'-5080'

##### **Frac A1&3 sands as follows:**

70,448# 20/40 sand in 562 bbls Lightning 17 frac fluid. Treated @ avg press of 1933 psi w/avg rate of 24.9 BPM. ISIP 2050 psi. Calc flush: 5036 gal. Actual flush: 5040 gal.

2/6/06 4742'-4750'

##### **Frac C sands as follows:**

34,710# 20/40 sand in 390 bbls Lightning 17 frac fluid. Treated @ avg press of 1978 psi w/avg rate of 24.8 BPM. ISIP 1980 psi. Calc flush: 4740 gal. Actual flush: 4746 gal.

2/6/06 4300'-4314'

##### **Frac PB10 sands as follows:**

35,142# 20/40 sand in 348 bbls Lightning 17 frac fluid. Treated @ avg press of 1820 psi w/avg rate of 24.8 BPM. ISIP 2060 psi. Calc flush: 4298 gal. Actual flush: 4326 gal.

2/6/06 4044'-4110'

##### **Frac GB6 sands as follows:**

67,736# 20/40 sand in 511 bbls Lightning 17 frac fluid. Treated @ avg press of 1805 w/ avg rate of 24.9 BPM. ISIP 1820 psi. Calc flush: 4042 gal. Actual flush: 3906 gal.

12/13/06

##### **Pump Change:** Rod & Tubing detail updated.

10/28/13 **Anguard**

Rigged up Halliburton, Mixed 50 BBLS of PKR Fluid pumped down CSG, Flushed Pump Lines, Mixed **30 BBLS of Anguard**, Pumped Down CSG Displaced W/ 14.56 BBLS Placed Over Hole from 1882'-1892'

**Conversion MIT Finalized** - update tbg detail

#### PERFORATION RECORD

|        |             |        |          |
|--------|-------------|--------|----------|
| 2/1/06 | 5064'-5080' | 4 JSPF | 64 holes |
| 2/1/06 | 5038'-5046' | 4 JSPF | 32 holes |
| 2/6/06 | 4742'-4750' | 4 JSPF | 32 holes |
| 2/6/06 | 4300'-4314' | 4 JSPF | 56 holes |
| 2/6/06 | 4104'-4110' | 4 JSPF | 24 holes |
| 2/6/06 | 4094'-4098' | 4 JSPF | 16 holes |
| 2/6/06 | 4044'-4066' | 4 JSPF | 88 holes |

**NEWFIELD**

**Pan American 1FR-9-16**

663' FNL & 663' FWL

NW/NW Section 13-T9S-R16E

Duchesne Co, Utah

API #43-013-10822; Lease #UTU-75039

revised 2/26/2014

LCN 11/21/13